

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :

Network

Name	Location	Upstream Node	Downstream Node	Ignored	Tailpipe	Length (m)
Pipe5	FL-112-0029-AN07-6"-PT	PV-2152	Tee73	No	Yes	30.000
Pipe2	FL-112-0005-AN07-6"-PT	PSV-2111/2112	Tee74	No	Yes	5.420
Pipe7		Tee74	Connector3	No	No	24.480
Pipe9	FL-112-0011-AN07-3"-PT	PSV-2113/2114	Tee3	No	Yes	15.000
Pipe10	FL-112-0013A-AN07-2"-PT	PSV-2121A	Tee4	No	Yes	20.000
Pipe11	FL-112-0019A-AN07-2"-PT	PSV-2131A	Tee5	No	Yes	20.000
Pipe12		Tee21	Tee4	No	No	27.600
Pipe13		Tee4	Tee7	No	No	2.400
Pipe14		Tee36	Tee24	No	No	3.000
Pipe15	FL-112-0119A-AN07-2"-PT	BDV-2131A	Tee6	No	Yes	20.000
Pipe16	FL-112-0016A-AN07-6"-PT	PSV-2122A/2123A	Tee7	No	Yes	20.000
Pipe19		Tee5	Tee6	No	No	2.400
Pipe20		Tee24	Tee55	No	No	19.920
Pipe34		Tee71	Tee16	No	No	14.400
Pipe35	V-2103	BDV-2141	Tee16	No	Yes	3.000
Pipe40		Tee16	Tee53	No	No	6.000
Pipe41	FL-112-0027-AN07-8"-PT	PSV-2141/2142	Tee19	No	Yes	25.000
Pipe43		Tee19	Tee73	No	No	2.400
Pipe44		Tee78	HorizontalSeparator1	No	No	54.000
Pipe45		HorizontalSeparator1	Connector2	No	No	550.000
Pipe46	LP FLARE STACK	Connector2	FlareTip1	No	No	19.000
Pipe47		Tee7	Tee75	No	No	2.000
Pipe48		Tee37	Tee21	No	No	2.000
Pipe49	FL-112-0034-AN07-2"-PT	PSV-2271	Tee21	No	Yes	23.000
Pipe53	FL-112-0023A-AN07-2"-PT	BDV-2132 A	Tee24	No	Yes	3.000
Pipe76	FL-112-0022A-AN07-6"-PT	PSV-2132A/2133A	Tee36	No	Yes	25.000
Pipe77		Tee6	Tee36	No	No	7.800
Pipe78	FL-112-0119A-AN07-2"-PT	XV-2110	Tee37	No	Yes	15.000
Pipe79		Tee3	Tee37	No	No	2.000
Pipe113	FL-112-0002-AN07-4"-PT	BDV-2151	Tee53	No	Yes	4.000
Pipe114		Connector3	Tee3	No	No	7.560
Pipe115	FL-112-0013A-AN07-2"-PT	PSV-2121B	Tee55	No	Yes	20.000
Pipe116	FL-112-0019A-AN07-2"-PT	PSV-2131B	Tee56	No	Yes	20.000
Pipe117		Tee55	Tee58	No	No	2.400
Pipe118		Tee60	Tee59	No	No	3.000
Pipe119	FL-112-0119A-AN07-2"-PT	BDV-2131 B	Tee57	No	Yes	20.000
Pipe120	FL-112-0016A-AN07-6"-PT	PSV-2122B/2123B	Tee58	No	Yes	20.000
Pipe121		Tee56	Tee57	No	No	2.400
Pipe122		Tee59	Tee67	No	No	19.920
Pipe123		Tee76	Tee56	No	No	2.000
Pipe124	FL-112-0023A-AN07-2"-PT	BDV-2132 B	Tee59	No	Yes	3.000
Pipe125	FL-112-0022A-AN07-6"-PT	PSV-2132B/2133B	Tee60	No	Yes	25.000
Pipe126		Tee57	Tee60	No	No	7.800
Pipe139	FL-112-0013A-AN07-2"-PT	PSV-2121C	Tee67	No	Yes	20.000
Pipe140	FL-112-0019A-AN07-2"-PT	PSV-2131C	Tee68	No	Yes	20.000
Pipe141		Tee67	Tee70	No	No	2.400
Pipe142		Tee72	Tee71	No	No	3.000
Pipe143	FL-112-0119A-AN07-2"-PT	BDV-2131 C	Tee69	No	Yes	20.000

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Network

Name	Elevation Change (m)	Material	Roughness (mm)	Thermal Conductivity (W/m-K)	Nominal Diameter	Schedule	Internal Diameter (mm)	Wall Thickness (mm)
Pipe5	0.000	Carbon Steel	0.04572	51.91	6 inch	40	154.051	7.112
Pipe2	0.000	Carbon Steel	0.04572	51.91	6 inch	40	154.051	7.112
Pipe7	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe9	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe10	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe11	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe12	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe13	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe14	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe15	0.000	Carbon Steel	0.04572	51.91	2 inch	STD	52.502	3.912
Pipe16	0.000	Carbon Steel	0.04572	51.91	6 inch	40	154.051	7.112
Pipe19	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe20	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe34	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe35	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe40	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe41	0.000	Carbon Steel	0.04572	51.91	8 inch	40	202.717	8.179
Pipe43	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe44	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe45	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe46	19.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe47	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe48	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe49	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe53	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe76	0.000	Carbon Steel	0.04572	51.91	6 inch	40	154.051	7.112
Pipe77	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe78	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe79	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe113	0.000	Carbon Steel	0.04572	51.91	4 inch	40	102.260	6.020
Pipe114	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe115	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe116	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe117	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe118	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe119	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe120	0.000	Carbon Steel	0.04572	51.91	6 inch	40	154.051	7.112
Pipe121	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe122	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe123	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe124	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe125	0.000	Carbon Steel	0.04572	51.91	6 inch	40	154.051	7.112
Pipe126	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe139	0.000	Carbon Steel	0.04572	51.91	3 inch	40	77.927	5.486
Pipe140	0.000	Carbon Steel	0.04572	51.91	3 inch	40	77.927	5.486
Pipe141	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe142	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe143	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912

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Network

Name	Pipe Class	Sizeable	Length Multiplier	Fittings Loss A	Fittings Loss B	Ambient Temperature (C)	External Med Velocity (m/s)	Insulation Description	Insulation Thickness (mm)
Pipe5	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe2	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe7	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe9	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe10	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe11	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe12	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe13	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe14	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe15	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe16	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe19	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe20	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe34	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe35	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe40	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe41	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe43	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe44	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe45	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe46	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe47	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe48	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe49	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe53	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe76	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe77	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe78	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe79	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe113	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe114	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe115	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe116	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe117	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe118	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe119	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe120	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe121	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe122	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe123	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe124	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe125	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe126	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe139	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe140	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe141	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe142	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe143	No	Yes		0.000	0.000			Glass Fibre	0.00

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Network

Name	Insulation Conductivity (W/m-K)	Outlet Temperature (C)	Duty (kJ/hr)	VLE Method	Horizontal Pres. Drop	Inclined Pres. Drop
Pipe5	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe2	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe7	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe9	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe10	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe11	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe12	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe13	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe14	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe15	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe16	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe19	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe20	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe34	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe35	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe40	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe41	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe43	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe44	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe45	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe46	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe47	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe48	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe49	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe53	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe76	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe77	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe78	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe79	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe113	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe114	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe115	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe116	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe117	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe118	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe119	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe120	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe121	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe122	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe123	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe124	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe125	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe126	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe139	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe140	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe141	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe142	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe143	0.040		0.000e+000	Model Default	Model Default	Model Default



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Network				
Name	Vertical Pres. Drop	Two Phase Elements	Friction Factor	Damping Factor
Pipe5	Model Default		Model Default	
Pipe2	Model Default		Model Default	
Pipe7	Model Default		Model Default	
Pipe9	Model Default		Model Default	
Pipe10	Model Default		Model Default	
Pipe11	Model Default		Model Default	
Pipe12	Model Default		Model Default	
Pipe13	Model Default		Model Default	
Pipe14	Model Default		Model Default	
Pipe15	Model Default		Model Default	
Pipe16	Model Default		Model Default	
Pipe19	Model Default		Model Default	
Pipe20	Model Default		Model Default	
Pipe34	Model Default		Model Default	
Pipe35	Model Default		Model Default	
Pipe40	Model Default		Model Default	
Pipe41	Model Default		Model Default	
Pipe43	Model Default		Model Default	
Pipe44	Model Default		Model Default	
Pipe45	Model Default		Model Default	
Pipe46	Model Default		Model Default	
Pipe47	Model Default		Model Default	
Pipe48	Model Default		Model Default	
Pipe49	Model Default		Model Default	
Pipe53	Model Default		Model Default	
Pipe76	Model Default		Model Default	
Pipe77	Model Default		Model Default	
Pipe78	Model Default		Model Default	
Pipe79	Model Default		Model Default	
Pipe113	Model Default		Model Default	
Pipe114	Model Default		Model Default	
Pipe115	Model Default		Model Default	
Pipe116	Model Default		Model Default	
Pipe117	Model Default		Model Default	
Pipe118	Model Default		Model Default	
Pipe119	Model Default		Model Default	
Pipe120	Model Default		Model Default	
Pipe121	Model Default		Model Default	
Pipe122	Model Default		Model Default	
Pipe123	Model Default		Model Default	
Pipe124	Model Default		Model Default	
Pipe125	Model Default		Model Default	
Pipe126	Model Default		Model Default	
Pipe139	Model Default		Model Default	
Pipe140	Model Default		Model Default	
Pipe141	Model Default		Model Default	
Pipe142	Model Default		Model Default	
Pipe143	Model Default		Model Default	



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Network						
Name	Location	Upstream Node	Downstream Node	Ignored	Tailpipe	Length (m)
Pipe144	FL-112-0016A-AN07-6"-P	PSV-2122C/2123C	Tee70	No	Yes	20.000
Pipe145		Tee68	Tee69	No	No	2.400
Pipe146		Tee70	Tee77	No	No	2.000
Pipe147	FL-112-0023A-AN07-2"-P	BDV-2132 C	Tee71	No	Yes	3.000
Pipe148	FL-112-0022A-AN07-6"-P	PSV-2132C/2133C	Tee72	No	Yes	25.000
Pipe149		Tee69	Tee72	No	No	7.800
Pipe150		Tee53	Tee19	No	No	2.400
Pipe151		PCV-2135A	Tee75	No	Yes	4.000
Pipe152		Tee75	Tee5	No	No	2.000
Pipe153		Tee76	Tee58	No	No	2.000
Pipe154		PCV-2135B	Tee76	No	Yes	4.000
Pipe155		PCV-2135C	Tee77	No	Yes	4.000
Pipe156		Tee68	Tee77	No	No	2.000
Pipe157		PSV-2293	Tee78	No	Yes	6.000
Pipe158		Tee73	Tee78	No	No	10.000



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Network								
Name	Elevation Change (m)	Material	Roughness (mm)	Thermal Conductivity (W/m-K)	Nominal Diameter	Schedule	Internal Diameter (mm)	Wall Thickness (mm)
Pipe144	0.000	Carbon Steel	0.04572	51.91	6 inch	40	154.051	7.112
Pipe145	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe146	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe147	0.000	Carbon Steel	0.04572	51.91	2 inch	40	52.502	3.912
Pipe148	0.000	Carbon Steel	0.04572	51.91	6 inch	40	154.051	7.112
Pipe149	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe150	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe151	0.000	Carbon Steel	0.04572	51.91	4 inch	40	102.260	6.020
Pipe152	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe153	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe154	0.000	Carbon Steel	0.04572	51.91	4 inch	40	102.260	6.020
Pipe155	0.000	Carbon Steel	0.04572	51.91	4 inch	40	102.260	6.020
Pipe156	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271
Pipe157	0.000	Carbon Steel	0.04572	51.91	3 inch	40	77.927	5.486
Pipe158	0.000	Carbon Steel	0.04572	51.91	10 inch	40	254.508	9.271

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Name	Pipe Class	Sizeable	Length Multiplier	Fittings Loss A	Fittings Loss B	Ambient Temperature (C)	External Med Velocity (m/s)	Insulation Description	Insulation Thickness (mm)
Pipe144	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe145	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe146	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe147	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe148	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe149	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe150	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe151	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe152	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe153	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe154	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe155	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe156	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe157	No	Yes		0.000	0.000			Glass Fibre	0.00
Pipe158	No	Yes		0.000	0.000			Glass Fibre	0.00



User Name : Undefined
Job Code :
Project : BINAK
Description :

Network						
Name	Insulation Conductivity (W/m-K)	Outlet Temperature (C)	Duty (kJ/hr)	VLE Method	Horizontal Pres. Drop	Inclined Pres. Drop
Pipe144	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe145	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe146	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe147	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe148	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe149	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe150	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe151	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe152	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe153	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe154	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe155	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe156	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe157	0.040		0.000e+000	Model Default	Model Default	Model Default
Pipe158	0.040		0.000e+000	Model Default	Model Default	Model Default

User Name : Undefined
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Network

Name	Vertical Pres. Drop	Two Phase Elements	Friction Factor	Damping Factor
Pipe144	Model Default		Model Default	
Pipe145	Model Default		Model Default	
Pipe146	Model Default		Model Default	
Pipe147	Model Default		Model Default	
Pipe148	Model Default		Model Default	
Pipe149	Model Default		Model Default	
Pipe150	Model Default		Model Default	
Pipe151	Model Default		Model Default	
Pipe152	Model Default		Model Default	
Pipe153	Model Default		Model Default	
Pipe154	Model Default		Model Default	
Pipe155	Model Default		Model Default	
Pipe156	Model Default		Model Default	
Pipe157	Model Default		Model Default	
Pipe158	Model Default		Model Default	

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :

Component Data

Name	ID	Mol. Wt.	Critical Temperature (K)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
H2O	61	18.015	647.30	220.187	0.05710	0.04357	0.34400	-0.65442
CO2	53	44.010	304.10	72.687	0.09390	0.09383	0.23894	0.23725
H2S	54	34.076	373.60	89.065	0.09800	0.09939	0.08100	0.09300
Methane	1	16.043	190.70	45.394	0.09900	0.09939	0.01150	0.00740
Ethane	2	30.070	305.43	47.826	0.14800	0.14575	0.09860	0.09830
Propane	3	44.097	369.90	41.554	0.20000	0.20008	0.15240	0.15320
i-Butane	4	58.124	408.10	35.463	0.26300	0.25683	0.18479	0.18250
n-Butane	5	58.124	425.20	36.953	0.25499	0.25439	0.20100	0.20080
i-Pentane	6	72.151	460.40	32.323	0.30799	0.30959	0.22224	0.23995
n-Pentane	7	72.151	469.60	32.738	0.31099	0.31132	0.25389	0.25220
n-Hexane	9	86.178	507.90	29.303	0.36800	0.36820	0.30070	0.30070
n-Heptane	14	100.205	540.16	26.355	0.42598	0.43044	0.34979	0.35069
n-Octane	22	114.232	568.60	23.953	0.48600	0.49042	0.40180	0.39980
n-Nonane	25	128.259	594.60	21.988	0.54299	0.55290	0.44549	0.44780
n-Decane	26	142.285	617.60	20.063	0.60197	0.61922	0.48848	0.49160
Nitrogen	59	28.013	126.19	32.931	0.09000	0.09015	0.04000	0.03580
TEGlycol	132	150.169	727.00	13.173	0.44600	0.34893	0.68997	-0.45581
n-C11	133	156.313	638.30	18.636	0.66000	0.68651	0.53500	0.54220

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :

Component Data

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
H2O	373.15	997.99	8.775	-1.03219e+002	3.44899e+001	-7.12930e-003	1.57849e-005
CO2	194.60	825.34	8.541	5.51244e-008	2.72041e+001	2.13220e-002	-6.57298e-006
H2S	213.50	788.41	9.222	-4.88991e+001	3.40249e+001	-6.28021e-003	1.89829e-005
Methane	111.63	299.39	19.563	-2.08237e+002	3.79349e+001	-3.42110e-002	9.08317e-005
Ethane	184.55	355.68	19.471	-5.31486e+001	3.43669e+001	-9.73062e-003	1.27590e-004
Propane	231.05	506.68	14.732	1.74134e+003	1.74183e+001	9.32250e-002	1.74838e-005
i-Butane	261.42	561.97	13.841	1.79621e+003	8.91041e+000	1.53145e-001	4.22693e-006
n-Butane	272.65	583.22	13.525	3.93622e+003	4.96413e-001	1.90472e-001	-6.44990e-005
i-Pentane	301.03	623.44	13.077	4.63570e+003	-9.50936e+000	2.55487e-001	-9.61917e-005
n-Pentane	309.21	629.73	13.062	4.55980e+003	-8.44289e-001	2.39282e-001	-8.44528e-005
n-Hexane	341.88	662.66	12.836	6.42137e+003	-8.33315e+000	2.99597e-001	-1.13858e-004
n-Heptane	371.58	686.82	12.733	7.15564e+003	-9.70935e+000	3.48012e-001	-1.33293e-004
n-Octane	398.82	705.38	12.694	1.44512e+004	-3.08541e+001	4.56733e-001	-2.25380e-004
n-Nonane	423.97	720.25	12.688	6.38566e-007	-8.37397e+000	4.36450e-001	-1.60766e-004
n-Decane	447.30	732.72	12.696	1.04362e-006	-7.91297e+000	4.80447e-001	-1.76266e-004
Nitrogen	77.35	806.37	6.427	-4.49048e+001	2.97414e+001	-3.07135e-003	4.76602e-006
TEGlycol	550.40	1128.45	8.834	0.00000e+000	-1.08446e+001	4.02138e-001	1.09708e-018
n-C11	469.04	742.85	12.723	6.42209e-007	-8.39498e+000	5.27000e-001	-1.93300e-004

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :

Component Data

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
H2O	-8.91847e-009	1.87080e-012	1.00000e+000	-0.86778	-1.10669	Misc	0.0
CO2	1.00804e-009	-6.03131e-014	1.00000e+000	-0.00038	-0.31474	Misc	0.0
H2S	-1.08262e-008	2.16936e-012	1.00000e+000	0.38727	0.35719	Misc	-518000.0
Methane	-5.97560e-008	1.38113e-011	1.00000e+000	-0.00201	0.02547	HC	-802703.0
Ethane	-1.02032e-007	2.65245e-011	1.00000e+000	0.07231	0.04698	HC	-1428510.0
Propane	-2.94205e-008	7.40547e-012	1.00000e+000	0.07112	-0.06538	HC	-2044970.0
i-Butane	-4.23082e-008	1.37600e-011	1.00000e+000	0.10784	-0.14528	HC	-2652850.0
n-Butane	1.02674e-008	-3.71951e-013	1.00000e+000	0.10006	-0.05969	HC	-2659600.0
i-Pentane	1.81421e-008	-9.34904e-013	1.00000e+000	0.03229	-0.18757	HC	-3265570.0
n-Pentane	1.44039e-008	-6.25178e-013	1.00000e+000	0.12425	-0.03341	HC	-3273500.0
n-Hexane	2.17483e-008	-1.16052e-012	1.00000e+000	0.09727	-0.10756	HC	-3888500.0
n-Heptane	2.56290e-008	-1.38008e-012	1.00000e+000	0.05282	-0.20281	HC	-4503500.0
n-Octane	7.11432e-008	-1.07165e-011	1.00000e+000	0.04179	-0.25551	HC	-5118500.0
n-Nonane	2.57743e-008	-2.86971e-021	1.00000e+000	0.08284	-0.24232	HC	-5733550.0
n-Decane	2.82743e-008	-5.26655e-021	1.00000e+000	0.09464	-0.26298	HC	-6348600.0
Nitrogen	-1.16995e-009	-1.01437e-013	1.00000e+000	0.12115	0.02163	Misc	0.0
TEGlycol	-9.00573e-022	3.03264e-025	1.00000e+000	-0.17213	-1.24694	Alcohol	-3249800.0
n-C11	3.09243e-008	-3.26329e-021	1.00000e+000	0.09020	-0.29723	HC	-6963610.0

User Name : Undefined
Job Code :
Project : BINAK
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Scenario Data

Name	System Back Pres. (bar_g)	Ambient Temperature (C)	Header Mach No.	Header Vap. Vel. (m/s)	Header Liq. Vel. (m/s)	Header Rho V2 (kg/m/s2)	Header Noise (dB)	Tailpipe Mach No.	Tailpipe Vap. Vel. (m/s)
Default Scenario	0.03675	18.75	0.7000			150000	100.0	0.7000	
BDV-Fire case	0.08675	33.00	0.7000			150000	100.0	0.7000	
Spurious blowdown case	0.08675	18.75	0.7000			150000	100.0	0.7000	
Cold shutdown case	0.08675	18.75	0.7000			150000	100.0	0.7000	
FIRE-AREA 1	0.08675	33.00	0.7000			150000	100.0	0.7000	
FIRE-AREA 2	0.08675	33.00	0.7000			150000	100.0	0.7000	
FIRE-AREA 3	0.08675	33.00	0.7000			150000	100.0	0.7000	
BLOCK OUTLET-PSV-2113	0.03675	18.75	0.7000			150000	100.0	0.7000	
BLOCK OUTLET PSV-2112	0.03675	18.75	0.7000			150000	100.0	0.7000	
PCV-2152	0.08675	18.75	0.7000			150000	100.0	0.7000	
PSV-2113 BLOCKEDOUTLET	0.03675	18.75	0.7000			150000	100.0	0.7000	
PSV-2141/2142 BLOCKEDOUTLET	0.08675	33.00	0.7000			150000	100.0	0.7000	
PSV-2111/2112 BLOCKEDOUTLET	0.08675	33.00	0.7000			150000	100.0	0.7000	
XV-2110-fire case	0.08675	18.75	0.7000			150000	100.0	0.7000	
XV-2110-COLD SHUT DOWN	0.03675	18.75	0.7000			150000	100.0	0.7000	
XV-2110 Spurious blowdown	0.03675	18.75	0.7000			150000	100.0	0.7000	
PSV-2113/2114 BLOKEDOUTLET	0.03675	18.75	0.7000			150000	100.0	0.7000	
PCV-2135 A/B	0.08675	18.75	0.7000			150000	100.0	0.7000	
PSV-2293 FIRE	0.08675	18.75	0.7000			150000	100.0	0.7000	

User Name : Undefined
Job Code :
Project : BINAK
Description :

Scenario Data

Name	Tailpipe Liq. Vel. (m/s)	Tailpipe Rho V2 (kg/m/s2)	Tailpipe Noise (dB)
Default Scenario		150000	100.0
BDV-Fire case		150000	100.0
Spurious blowdown case		150000	100.0
Cold shutdown case		150000	100.0
FIRE-AREA 1		150000	100.0
FIRE-AREA 2		150000	100.0
FIRE-AREA 3		150000	100.0
BLOCK OUTLET-PSV-2132/2133		150000	100.0
BLOCK OUTLET PSV-2122/2123		150000	100.0
PCV-2152		150000	100.0
PSV-2113 BLOCKEDOUTLET		150000	100.0
PSV-2141/2142 BLOCKED OUTLET		150000	100.0
PSV-2111/2112 BLOCKED OUTLET		150000	100.0
XV-2110-fire case		150000	100.0
XV-2110-COLD SHUT DOWN		150000	100.0
XV-2110 Spurious blowdown		150000	100.0
PSV-2113/2114 BLOKED OUTLET		150000	100.0
PCV-2135 A/B		150000	100.0
PSV-2293 FIRE		150000	100.0

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :

Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
Methane	1	16.043	190.70	46.40700	0.09900	0.09939	0.01150	0.00740
Ethane	2	30.070	305.43	48.83900	0.14800	0.14575	0.09860	0.09830
Propane	3	44.097	369.90	42.56700	0.20000	0.20008	0.15240	0.15320
i-Butane	4	58.124	408.10	36.47600	0.26300	0.25683	0.18479	0.18250
n-Butane	5	58.124	425.20	37.96600	0.25499	0.25439	0.20100	0.20080
i-Pentane	6	72.151	460.40	33.33600	0.30799	0.30959	0.22224	0.23995
n-Pentane	7	72.151	469.60	33.75100	0.31099	0.31132	0.25389	0.25220
22-Mpropane	8	72.151	433.78	31.98800	0.30300	0.31257	0.19640	0.19750
n-Hexane	9	86.178	507.90	30.31600	0.36800	0.36820	0.30070	0.30070
2-Mpentane	10	86.178	497.50	30.10400	0.36636	0.36770	0.27910	0.27910
3-Mpentane	11	86.178	504.45	31.23800	0.36636	0.36333	0.27500	0.27410
22-Mbutane	12	86.178	504.45	38.80600	0.35899	0.36338	0.23194	0.23296
23-Mbutane	13	86.178	499.98	31.26900	0.35800	0.36100	0.24695	0.24770
n-Heptane	14	100.205	540.16	27.36800	0.42598	0.43044	0.34979	0.35069
2-Mhexane	15	100.205	530.37	27.33600	0.42100	0.42737	0.34000	0.33100
3-Mhexane	16	100.205	535.25	28.13800	0.40400	0.42313	0.32699	0.32429
3-Epentane	17	100.205	540.64	28.90800	0.41600	0.41633	0.31400	0.31180
22-Mpentane	18	100.205	520.50	27.73300	0.41600	0.42250	0.30000	0.28819
24-Mpentane	19	100.205	519.79	27.36800	0.41800	0.42513	0.30700	0.30399
33-Mpentane	20	100.205	536.40	29.45500	0.41400	0.41370	0.28700	0.26809
23-Mpentane	21	100.205	537.35	29.08000	0.39300	0.41271	0.30500	0.29730
n-Octane	22	114.232	568.60	24.96600	0.48600	0.49042	0.40180	0.39980
2233-Mbutane	23	114.232	567.95	28.67400	0.46099	0.45691	0.24670	0.25130
25-Mhexane	24	114.232	550.06	24.86500	0.48199	0.48581	0.34599	0.35558
n-Nonane	25	128.259	594.60	23.00100	0.54299	0.55290	0.44549	0.44780
n-Decane	26	142.285	617.60	21.07600	0.60197	0.61922	0.48848	0.49160
Cyclopentane	27	70.135	511.60	45.09000	0.25999	0.26001	0.19200	0.19686
Mcyclopentan	28	84.162	532.70	37.89600	0.31900	0.31812	0.23894	0.23217
Cyclohexane	29	84.160	553.20	40.53000	0.30799	0.30899	0.21330	0.21277
Mcyclohexane	30	98.189	572.10	34.75400	0.36800	0.37090	0.23296	0.23710
Ethylene	31	28.054	282.36	50.31800	0.12894	0.13097	0.08500	0.08820
Propene	32	42.081	365.00	46.20400	0.18095	0.18287	0.14800	0.14550
1-Butene	33	56.108	419.60	40.22600	0.23995	0.23770	0.18700	0.19210
cis2-Butene	34	56.108	435.58	42.05800	0.23394	0.23104	0.20295	0.20385
tr2-Butene	35	56.108	428.63	41.02400	0.23815	0.23668	0.21818	0.21525
i-Butene	36	56.108	417.90	40.02300	0.23894	0.23690	0.18998	0.19584
1-Pentene	37	70.135	464.70	40.53000	0.30000	0.29510	0.23296	0.28240
12-Butadiene	38	54.092	443.70	44.98800	0.21897	0.21829	0.25499	0.24920
13-Butadiene	39	54.092	425.00	43.26600	0.22100	0.22020	0.19494	0.19336
2M-13-C4==	40	68.119	484.26	38.50000	0.27636	0.26910	0.15860	0.17000
Acetylene	41	26.038	308.32	61.39100	0.11296	0.16741	0.18727	0.20487
Benzene	42	78.110	562.10	49.24400	0.25999	0.27438	0.21500	0.48891
Toluene	43	92.141	591.80	41.00000	0.31600	0.31369	0.25960	0.26510
E-Benzene	44	106.166	617.10	36.07100	0.37400	0.37020	0.30098	0.30480
o-Xylene	45	106.166	630.37	37.32800	0.36912	0.36733	0.30230	0.31180
m-Xylene	46	106.166	617.05	35.41100	0.37573	0.37312	0.32600	0.32699
p-Xylene	47	106.166	616.26	35.10800	0.37906	0.37400	0.32589	0.32159
Styrene	48	104.152	647.55	39.99300	0.36899	0.34819	0.24007	0.24199

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :

Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
Methane	111.63	299.39	19.56	-2.08237e+002	3.79349e+001	-3.42110e-002	9.08317e-005
Ethane	184.55	355.68	19.47	-5.31486e+001	3.43669e+001	-9.73062e-003	1.27590e-004
Propane	231.05	506.68	14.73	1.74134e+003	1.74183e+001	9.32250e-002	1.74838e-005
i-Butane	261.42	561.97	13.84	1.79621e+003	8.91041e+000	1.53145e-001	4.22693e-006
n-Butane	272.65	583.22	13.53	3.93622e+003	4.96413e-001	1.90472e-001	-6.44990e-005
i-Pentane	301.03	623.44	13.08	4.63570e+003	-9.50936e+000	2.55487e-001	-9.61917e-005
n-Pentane	309.21	629.73	13.06	4.55980e+003	-8.44289e-001	2.39282e-001	-8.44528e-005
22-Mpropane	282.65	595.59	13.40	0.00000e+000	-1.58624e+000	2.37052e-001	-6.28533e-005
n-Hexane	341.88	662.66	12.84	6.42137e+003	-8.33315e+000	2.99597e-001	-1.13858e-004
2-Mpentane	333.41	656.51	12.85	9.60625e+003	-5.21980e+001	4.24021e-001	-2.59999e-004
3-Mpentane	336.42	667.68	12.67	7.22352e+003	-1.46072e+001	3.16962e-001	-1.34257e-004
22-Mbutane	322.88	652.57	12.79	0.00000e+000	-1.66323e+001	3.14636e-001	-2.08844e-004
23-Mbutane	331.13	665.17	12.65	0.00000e+000	-1.46072e+001	3.07516e-001	-2.02543e-004
n-Heptane	371.58	686.82	12.73	7.15564e+003	-9.70935e+000	3.48012e-001	-1.33293e-004
2-Mhexane	363.20	681.54	12.73	4.78358e+003	-1.25256e+001	3.60998e-001	-1.28232e-004
3-Mhexane	365.00	690.20	12.60	1.96113e-006	-5.61900e+000	3.38462e-001	-1.21314e-004
3-Epentane	366.62	701.17	12.42	7.87671e+003	1.54915e+001	2.83538e-001	-6.78564e-005
22-Mpentane	352.34	676.97	12.69	7.78453e+003	2.15940e+001	2.82528e-001	-6.69596e-005
24-Mpentane	353.64	675.99	12.73	7.60805e+003	2.23146e+001	2.82506e-001	-6.69215e-005
33-Mpentane	359.21	696.33	12.42	8.28584e+003	1.55909e+001	2.83359e-001	-6.76831e-005
23-Mpentane	362.93	698.05	12.43	8.01700e+003	1.58322e+001	2.83430e-001	-6.77452e-005
n-Octane	398.82	705.38	12.69	1.44512e+004	-3.08541e+001	4.56733e-001	-2.25380e-004
2233-Mbutane	379.62	741.12	11.89	1.22603e+004	2.72156e+000	3.24979e-001	-7.88984e-005
25-Mhexane	382.26	696.67	12.67	6.75522e+003	2.39312e+001	3.23037e-001	-7.71713e-005
n-Nonane	423.97	720.25	12.69	6.38566e-007	-8.37397e+000	4.36450e-001	-1.60766e-004
n-Decane	447.30	732.72	12.70	1.04362e-006	-7.91297e+000	4.80447e-001	-1.76266e-004
Cyclopentane	322.40	748.87	11.14	1.09549e-006	-5.36195e+001	2.71300e-001	-1.01033e-004
Mcyclopentan	344.96	752.07	11.34	1.07088e+004	-5.75752e+001	3.37111e-001	-1.41518e-004
Cyclohexane	353.88	781.82	11.01	3.83405e-007	-5.45399e+001	3.05648e-001	-8.40997e-005
Mcyclohexane	374.08	772.43	11.35	1.05642e+004	-6.91837e+001	4.02899e-001	-1.50082e-004
Ethylene	169.40	383.23	17.56	3.14225e-008	3.18972e+001	-6.86252e-003	8.19438e-005
Propene	225.40	520.96	14.21	8.10738e-007	3.70998e+000	1.17249e-001	-3.86663e-005
1-Butene	266.90	593.79	13.19	4.65739e-007	-2.99399e+000	1.76599e-001	-6.63317e-005
cis2-Butene	276.87	625.95	12.67	3.04059e-007	4.39599e-001	1.47650e-001	-3.39330e-005
tr2-Butene	274.03	608.68	12.98	1.50575e-006	1.83192e+001	1.28199e-001	-2.33764e-005
i-Butene	266.30	592.79	13.20	1.13102e-006	1.60496e+001	1.40199e-001	-3.63664e-005
1-Pentene	303.10	638.72	12.79	-1.01301e-006	-1.33993e-001	2.16450e-001	-7.72327e-005
12-Butadiene	283.00	650.70	12.27	1.25411e+003	2.51311e+001	9.48175e-002	2.59536e-007
13-Butadiene	268.70	619.74	12.67	2.55346e+003	3.24161e+000	1.52701e-001	-4.73063e-005
2M-13-C4==	307.20	684.85	11.99	9.44061e+003	3.81589e+000	1.92300e-001	-4.57211e-005
Acetylene	189.35	417.05	16.75	1.41140e-008	2.68197e+001	3.78895e-002	-1.66899e-005
Benzene	353.24	882.19	9.75	6.59762e+003	-4.00937e+001	2.53755e-001	-1.20578e-004
Toluene	383.80	870.04	10.16	6.83335e+003	-3.89848e+001	2.93422e-001	-1.32655e-004
E-Benzene	409.35	870.03	10.38	7.49022e+003	-4.16171e+001	3.51282e-001	-1.62190e-004
o-Xylene	417.58	883.15	10.30	3.45199e+003	-6.64472e+000	2.67422e-001	-6.97114e-005
m-Xylene	412.27	866.88	10.44	1.76757e-006	-2.91690e+001	3.14848e-001	-1.24899e-004
p-Xylene	411.51	864.23	10.47	4.56832e+003	-1.33650e+001	2.64066e-001	-5.67920e-005
Styrene	418.31	909.31	10.01	3.35812e+005	4.06453e+001	1.22591e-001	9.39214e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
Methane	-5.97560e-008	1.38113e-011	1.00000e+000	-0.00201	0.02547	HC	-802703
Ethane	-1.02032e-007	2.65245e-011	1.00000e+000	0.07231	0.04698	HC	-1428510
Propane	-2.94205e-008	7.40547e-012	1.00000e+000	0.07112	-0.06538	HC	-2044970
i-Butane	-4.23082e-008	1.37600e-011	1.00000e+000	0.10784	-0.14528	HC	-2652850
n-Butane	1.02674e-008	-3.71951e-013	1.00000e+000	0.10006	-0.05969	HC	-2659600
i-Pentane	1.81421e-008	-9.34904e-013	1.00000e+000	0.03229	-0.18757	HC	-3265570
n-Pentane	1.44039e-008	-6.25178e-013	1.00000e+000	0.12425	-0.03341	HC	-3273500
22-Mpropane	-6.54666e-009	5.26144e-012	1.00000e+000	0.18716	-0.13706	HC	-3254070
n-Hexane	2.17483e-008	-1.16052e-012	1.00000e+000	0.09727	-0.10756	HC	-3888500
2-Mpentane	9.17846e-008	-9.30945e-012	1.00000e+000	0.10271	-0.09124	HC	-3851400
3-Mpentane	3.04893e-008	-1.52687e-012	1.00000e+000	0.00284	-0.21389	HC	-3884050
22-Mbutane	5.54793e-008	-6.96140e-026	1.00000e+000	-0.02493	-0.26234	HC	-3870080
23-Mbutane	5.52413e-008	3.48070e-026	1.00000e+000	0.03703	-0.24138	HC	-3877900
n-Heptane	2.56290e-008	-1.38008e-012	1.00000e+000	0.05282	-0.20281	HC	-4503500
2-Mhexane	9.88358e-009	2.32311e-012	1.00000e+000	0.06828	-0.17382	HC	-4496340
3-Mhexane	1.85181e-008	-1.08975e-020	1.00000e+000	-0.07379	-0.33272	HC	-4498990
3-Epentane	4.14438e-022	-4.04725e-026	1.00000e+000	-0.02363	-0.24355	HC	-4501610
22-Mpentane	-7.25267e-022	-7.08268e-026	1.00000e+000	0.09285	-0.17440	HC	-4485080
24-Mpentane	-1.18115e-021	6.07087e-026	1.00000e+000	0.00282	-0.26704	HC	-4489230
33-Mpentane	-1.24332e-021	2.32717e-025	1.00000e+000	0.26341	0.02743	HC	-4489760
23-Mpentane	3.12901e-021	-6.17205e-025	1.00000e+000	0.12703	-0.10683	HC	-4492060
n-Octane	7.11432e-008	-1.07165e-011	1.00000e+000	0.04179	-0.25551	HC	-5118500
2233-Mbutane	1.29924e-021	-3.57569e-025	1.00000e+000	0.01343	-0.25589	HC	5101000
25-Mhexane	-2.36226e-023	-2.30690e-026	1.00000e+000	0.05909	-0.23589	HC	-5104280
n-Nonane	2.57743e-008	-2.86971e-021	1.00000e+000	0.08284	-0.24232	HC	-5733550
n-Decane	2.82743e-008	-5.26655e-021	1.00000e+000	0.09464	-0.26298	HC	-6348600
Cyclopentane	1.62122e-008	-5.79391e-021	1.00000e+000	0.10424	-0.18035	HC	-3100940
Mcyclopentan	3.01153e-008	-2.21073e-012	1.00000e+000	0.05309	-0.25804	HC	-3707100
Cyclohexane	3.30246e-009	-2.17284e-021	1.00000e+000	-0.08034	-0.63384	HC	-3690650
Mcyclohexane	1.80075e-008	2.61513e-012	1.00000e+000	0.01561	-0.34615	HC	-4294600
Ethylene	-5.91265e-008	1.36161e-011	1.00000e+000	0.03259	-0.02275	HC	-1323570
Propene	5.51222e-009	-4.41758e-021	1.00000e+000	-0.11885	-0.20261	HC	-1927350
1-Butene	1.11572e-008	-2.39836e-021	1.00000e+000	0.03680	-0.06031	HC	-2543740
cis2-Butene	-1.53997e-010	-1.56620e-021	1.00000e+000	-0.02775	-0.09303	HC	-2536870
tr2-Butene	-2.24722e-009	-8.31469e-021	1.00000e+000	0.02474	-0.05633	HC	-2532500
i-Butene	2.27447e-009	-6.13432e-021	1.00000e+000	0.00261	-0.16493	HC	-2524197
1-Pentene	1.17022e-008	5.62232e-021	1.00000e+000	-0.03525	-0.13197	HC	-3157290
12-Butadiene	-1.79556e-008	4.82448e-012	1.00000e+000	-0.15081	-0.22495	HC	
13-Butadiene	-2.11881e-009	3.25311e-012	1.00000e+000	-0.08362	-0.21559	HC	
2M-13-C4==	3.25402e-021	-7.01583e-025	1.00000e+000	-0.07588	-0.18139	HC	
Acetylene	3.52989e-009	-8.64733e-023	1.00000e+000	0.32218	0.24670	HC	-1256200
Benzene	2.85106e-008	-1.93872e-012	1.00000e+000	-0.16332	-0.49827	HC	-3170970
Toluene	3.00928e-008	-1.96026e-012	1.00000e+000	-0.05580	-0.26030	HC	-3773650
E-Benzene	3.78000e-008	-2.53457e-012	1.00000e+000	-0.04854	-0.21085	HC	-4389140
o-Xylene	-1.19272e-008	7.95752e-012	1.00000e+000	-0.08176	-0.32466	HC	-4378300
m-Xylene	2.11946e-008	-9.72564e-021	1.00000e+000	-0.03405	-0.21513	HC	-4376540
p-Xylene	-2.12857e-008	1.01404e-011	1.00000e+000	-0.05246	-0.25042	HC	-4377250
Styrene	-1.06390e-007	2.86743e-011	1.00000e+000	-0.18218	-0.36794	HC	-4219000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
Cumene	49	120.194	631.15	32.08800	0.42763	0.42713	0.33770	0.32769
Methanol	50	32.042	512.60	73.76500	0.12700	0.10989	0.55699	0.11491
Ethanol	51	46.070	513.90	61.47000	0.16708	0.13812	0.64437	-0.49754
CO	52	28.011	132.95	34.98800	0.08930	0.09214	0.09300	0.02950
CO2	53	44.010	304.10	73.70000	0.09390	0.09383	0.23894	0.23725
H2S	54	34.076	373.60	90.07800	0.09800	0.09939	0.08100	0.09300
SO2	55	64.063	430.80	78.70000	0.12217	0.12522	0.25600	0.25600
Ammonia	56	17.030	405.55	112.76900	0.08040	0.07010	0.25500	0.26200
Hydrogen	57	2.016	33.44	13.15500	0.05150	0.06424	-0.12009	-0.23240
Oxygen	58	32.000	154.77	50.80000	0.07320	0.07379	0.01900	0.02980
Nitrogen	59	28.013	126.19	33.94400	0.09000	0.09015	0.04000	0.03580
Cl2	60	70.906	416.90	77.40000	0.12380	0.13457	0.09000	0.08220
H2O	61	18.015	647.30	221.20000	0.05710	0.04357	0.34400	-0.65442
Helium	62	4.003	5.19	2.27000	0.05730	0.05457	0.00000	-0.47659
HCl	63	36.461	324.70	83.00000	0.08090	0.08270	0.13300	0.12540
MEAmine	64	61.084	612.00	44.50000	0.19596	0.20904	0.79657	0.79657
TEAmine	65	149.190	787.43	24.47600	0.44001	0.52345	0.98299	0.98299
diEthylamine	66	73.139	496.50	37.10000	0.30098	0.29183	0.29100	0.30450
DGAmine	67	105.138	675.70	37.70000	0.32600	0.36496	0.87089	0.87089
MDEAmine	68	119.160	677.00	37.00000	0.31334	0.43878	0.99699	0.99699
1-Propanol	69	60.096	536.80	51.70000	0.21897	0.23623	0.62300	0.62489
2-Propanol	70	60.096	508.30	47.60000	0.21999	0.23883	0.66500	0.66368
1-Butanol	71	74.123	563.10	44.20000	0.27500	0.28409	0.59298	0.59280
2-Butanol	72	74.123	536.10	41.70000	0.26899	0.28029	0.57700	0.57920
i-Butanol	73	74.123	547.80	42.00000	0.27300	0.27300	0.59200	0.58828
tert-Butanol	74	74.123	506.20	39.70000	0.27500	0.28760	0.61198	0.61339
1-Pentanol	75	88.150	588.20	39.10000	0.32600	0.34369	0.57898	0.59750
2-Pentanol	76	88.149	552.00	38.70000	0.32699	0.35699	0.67460	0.67460
3-Pentanol	77	88.149	547.00	38.70000	0.32699	0.34340	0.67483	0.70937
2-M-1-C4ol	78	88.150	571.00	45.60000	0.33000	0.34070	0.67839	0.61080
3-M-2-C4ol	79	88.149	572.00	39.60000	0.32699	0.32236	0.35095	0.35095
3-M-1-C4ol	80	88.150	579.40	39.20000	0.33000	0.34130	0.55576	0.56290
2-M-2-C4ol	81	88.150	545.00	39.50000	0.33000	0.33129	0.48311	0.50068
22-M-1-C3ol	82	88.150	547.00	39.20000	0.33000	0.35686	0.60355	0.60355
cycPentanol	83	86.130	577.58	43.85800	0.31050	0.30636	0.77378	0.77378
cycHexanol	84	100.160	625.00	37.50000	0.34400	0.33770	0.52798	0.52960
1-Hexanol	85	102.177	611.00	34.70000	0.38100	0.40325	0.56000	0.56000
BZol	86	108.138	720.20	44.00000	0.30000	0.35710	0.39489	0.72310
1-Heptanol	87	116.204	632.00	31.60000	0.43500	0.46151	0.56000	0.56000
2-Heptanol	88	116.203	587.00	30.30000	0.43200	0.48087	0.76270	0.76270
Acetone	89	58.080	508.10	47.00000	0.20900	0.20983	0.30399	0.31490
M-E-Ketone	90	72.107	536.80	42.10000	0.26699	0.25229	0.31999	0.31880
Formaldehyde	91	30.026	407.00	65.90000	0.10497	0.10819	0.25299	0.26559
AcetAldehyde	92	44.054	461.00	55.70000	0.15399	0.15309	0.30300	0.26469
Propanal	93	58.080	496.00	47.60000	0.22300	0.20313	0.31299	0.31299
n-Butanal	94	72.107	545.40	53.70000	0.27799	0.26418	0.29629	0.35199
i-Butanal	95	72.107	512.00	41.50000	0.27399	0.26254	0.32128	0.34999
n-Pentanal	96	86.134	552.00	35.20000	0.33300	0.31911	0.40000	0.40000

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
Cumene	425.56	864.76	10.58	7.06236e+003	-4.26448e+001	4.02398e-001	-1.81433e-004
Methanol	337.80	795.72	10.65	0.00000e+000	2.11541e+001	3.54768e-002	8.62747e-006
Ethanol	351.40	795.98	10.78	0.00000e+000	9.01910e+000	1.07121e-001	-2.79855e-005
CO	81.70	799.39	6.60	-6.35567e+001	3.00809e+001	-4.83608e-003	8.46562e-006
CO2	194.60	825.34	8.54	5.51244e-008	2.72041e+001	2.13220e-002	-6.57298e-006
H2S	213.50	788.41	9.22	-4.88991e+001	3.40249e+001	-6.28021e-003	1.89829e-005
SO2	263.20	1395.56	5.59	-1.35786e-007	2.38494e+001	3.34949e-002	-1.65364e-005
Ammonia	239.70	616.07	12.27	-3.15293e+001	3.39527e+001	-9.07120e-003	3.51074e-005
Hydrogen	20.56	69.86	47.70	-7.33713e+000	1.96064e+001	2.67487e-002	-3.51978e-005
Oxygen	90.20	1137.68	4.80	-7.30688e+001	3.04640e+001	-8.99613e-003	2.09666e-005
Nitrogen	77.35	806.37	6.43	-4.49048e+001	2.97414e+001	-3.07135e-003	4.76602e-006
Cl2	239.20	1419.56	5.32	0.00000e+000	2.69477e+001	1.69309e-002	-1.29048e-005
H2O	373.15	997.99	8.78	-1.03219e+002	3.44899e+001	-7.12930e-003	1.57849e-005
Helium	4.21	124.06	15.83	3.65540e+001	2.07987e+001	-3.63478e-017	1.42408e-019
HCl	188.10	870.33	8.01	0.00000e+000	3.06831e+001	-3.60278e-003	4.15588e-006
MEAmine	443.50	1016.97	9.12	0.00000e+000	9.31530e+000	1.50550e-001	-6.06397e-005
TEAmine	633.15	1124.00	9.29	0.00000e+000	-1.58705e+001	2.90764e-001	-1.00480e-004
diEthylamine	328.60	707.00	11.87	0.00000e+000	2.04028e+000	2.21647e-001	-7.28122e-005
DGAmine	494.30	1057.00	9.10	0.00000e+000	6.32541e+001	1.91879e-001	-2.59708e-005
MDEAmine	520.40	1040.00	9.41	0.00000e+000	4.91714e+001	2.79728e-001	-1.04459e-004
1-Propanol	370.30	804.00	10.87	0.00000e+000	2.47163e+000	1.66359e-001	-6.18730e-005
2-Propanol	355.40	785.00	10.98	0.00000e+000	3.24320e+001	9.43093e-002	2.13673e-005
1-Butanol	390.90	813.87	10.93	0.00000e+000	3.26785e+000	2.09140e-001	-7.47812e-005
2-Butanol	372.70	813.87	10.76	0.00000e+000	5.75677e+000	2.12388e-001	-7.76483e-005
i-Butanol	381.00	804.23	10.97	0.00000e+000	-7.71250e+000	2.34606e-001	-9.61939e-005
tert-Butanol	355.50	781.26	11.03	0.00000e+000	-4.86291e+001	3.58812e-001	-2.36292e-004
1-Pentanol	411.10	819.53	11.04	0.00000e+000	3.87150e+000	2.52415e-001	-8.80220e-005
2-Pentanol	392.15	814.41	10.93	0.00000e+000	2.29773e+000	2.67091e-001	-1.03524e-004
3-Pentanol	388.45	827.54	10.73	0.00000e+000	-7.42554e+000	2.88917e-001	-1.22996e-004
2-M-1-C4ol	401.90	821.56	10.93	0.00000e+000	-9.48847e+000	2.84019e-001	-1.16109e-004
3-M-2-C4ol	384.65	822.96	10.75	0.00000e+000	-3.15279e-001	2.70541e-001	-1.04397e-004
3-M-1-C4ol	405.20	820.68	10.97	0.00000e+000	-9.53783e+000	2.84240e-001	-1.16241e-004
2-M-2-C4ol	375.50	813.54	10.79	0.00000e+000	-1.20975e+001	3.05003e-001	-1.40226e-004
22-M-1-C3ol	386.30	782.00	11.33	0.00000e+000	1.21558e+001	2.70027e-001	-1.05401e-004
cycPentanol	413.95	952.71	9.52	0.00000e+000	-3.88643e+001	3.62433e-001	-2.32188e-004
cycHexanol	434.30	961.93	9.58	0.00000e+000	-5.55638e+001	3.60927e-001	-1.36289e-004
1-Hexanol	430.20	822.93	11.16	0.00000e+000	4.81387e+000	2.94745e-001	-1.00398e-004
BZol	478.60	1047.31	9.09	0.00000e+000	-7.40249e+000	2.74224e-001	-1.11968e-004
1-Heptanol	449.80	826.56	11.28	0.00000e+000	4.90888e+001	3.39126e-001	-1.14975e-004
2-Heptanol	432.35	821.44	11.20	1.79434e-006	4.90689e+001	3.38899e-001	-1.14899e-004
Acetone	329.20	790.00	10.63	0.00000e+000	6.30447e+000	1.30385e-001	-4.17933e-005
M-E-Ketone	352.70	809.04	10.62	0.00000e+000	1.09457e+001	1.78068e-001	-6.33741e-005
Formaldehyde	253.00	752.45	10.23	0.00000e+000	2.34955e+001	1.57945e-002	9.95641e-006
AcetAldehyde	293.00	777.00	10.40	0.00000e+000	7.72042e+000	9.12090e-002	-3.35873e-005
Propanal	321.00	807.89	10.31	0.00000e+000	1.17273e+001	1.30786e-001	-4.33617e-005
n-Butanal	348.00	807.60	10.60	0.00000e+000	1.40890e+001	1.72962e-001	-5.74689e-005
i-Butanal	337.00	793.90	10.66	0.00000e+000	2.44760e+001	1.67908e-001	-6.86120e-005
n-Pentanal	376.00	813.02	10.80	0.00000e+000	1.42483e+001	2.16592e-001	-7.02785e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
Cumene	4.10830e-008	-2.69158e-012	1.00000e+000	-0.11783	-0.36739	HC	-4998850
Methanol	-7.13272e-009	-1.45593e-026	1.00000e+000	-0.08319	-0.54495	Alcohol	-638100
Ethanol	3.43469e-010	-1.60490e-025	1.00000e+000	-0.04704	-0.77429	Alcohol	-1235470
CO	-3.85223e-009	5.61215e-013	1.00000e+000	0.03398	-0.13120	Misc	-283000
CO2	1.00804e-009	-6.03131e-014	1.00000e+000	-0.00038	-0.31474	Misc	0
H2S	-1.08262e-008	2.16936e-012	1.00000e+000	0.38727	0.35719	Misc	-518000
SO2	3.31997e-009	8.06787e-022	1.00000e+000	-0.10982	-0.37720	Misc	0
Ammonia	-2.27957e-008	5.19970e-012	1.00000e+000	-0.13910	-0.24700	Misc	-316830
Hydrogen	2.20341e-008	-5.09054e-012	1.00000e+000	-0.36739	0.13233	Misc	-241820
Oxygen	-1.44735e-008	3.48019e-012	1.00000e+000	0.10997	0.10892	Misc	0
Nitrogen	-1.16995e-009	-1.01437e-013	1.00000e+000	0.12115	0.02163	Misc	0
Cl2	3.86994e-009	5.63822e-026	1.00000e+000	0.41955	0.41626	Halogen	
H2O	-8.91847e-009	1.87080e-012	1.00000e+000	-0.86778	-1.10669	Misc	0
Helium	-3.55125e-022	1.77847e-026	1.00000e+000	1.66270	0.03833	Misc	0
HCl	-9.75126e-010	-3.12936e-026	1.00000e+000	-0.06642	-0.30864	Misc	-28601.8
MEAmine	1.16475e-008	5.55111e-026	1.00000e+000	0.45633	-0.69080	Amine	-1363070
TEAmine	6.71026e-022	-1.54410e-025	1.00000e+000	-0.50830	-1.58984	Amine	
diEthylamine	9.13812e-009	-4.43109e-025	1.00000e+000	-0.11309	-0.45952	Amine	-2800300
DGAmine	3.53129e-008	-5.30811e-025	1.00000e+000	0.21333	-0.78241	Amine	-2449990
MDEAmine	2.75442e-008	-3.85027e-025	1.00000e+000	-0.22638	-1.68570	Amine	-3060000
1-Propanol	1.07468e-008	-6.67496e-026	1.00000e+000	-0.08665	-1.01443	Alcohol	-1843700
2-Propanol	-2.31677e-008	3.58021e-025	1.00000e+000	-0.32157	-1.60107	Alcohol	-1829950
1-Butanol	1.17200e-008	-2.99380e-026	1.00000e+000	-0.12199	-1.04665	Alcohol	-2455000
2-Butanol	1.19400e-008	1.64659e-025	1.00000e+000	-1.07500	-2.91142	Alcohol	-2440510
i-Butanol	1.80894e-008	-2.84411e-025	1.00000e+000	-0.37222	-1.57535	Alcohol	-2448980
tert-Butanol	7.30471e-008	-2.17051e-025	1.00000e+000	0.00485	-1.22362	Alcohol	-2423870
1-Pentanol	1.28081e-008	-8.90088e-026	1.00000e+000	-0.38855	-1.40899	Alcohol	-3060500
2-Pentanol	1.77355e-008	-6.23056e-026	1.00000e+000	-0.74597	-1.96683	Alcohol	-3051520
3-Pentanol	2.41729e-008	1.78016e-026	1.00000e+000	-0.40586	-1.57587	Alcohol	-3048340
2-M-1-C4ol	2.16063e-008	8.01079e-026	1.00000e+000	-0.50028	-1.67832	Alcohol	-3062020
3-M-2-C4ol	1.75242e-008	-1.51314e-025	1.00000e+000	-0.00545	-0.32839	Alcohol	-3052020
3-M-1-C4ol	2.16387e-008	-1.60216e-025	1.00000e+000	-0.35600	-1.40725	Alcohol	-3062270
2-M-2-C4ol	3.07200e-008	1.69117e-025	1.00000e+000	-0.76870	-2.25652	Alcohol	-3039120
22-M-1-C3ol	1.78164e-008	-8.18881e-025	1.00000e+000	-0.01304	-0.55405	Alcohol	-3099470
cycPentanol	6.86966e-008	-1.47847e-025	1.00000e+000	0.47564	0.44109	Alcohol	
cycHexanol	2.06006e-008	-6.06815e-026	1.00000e+000	-0.40654	-1.81260	Alcohol	-3463850
1-Hexanol	1.35735e-008	1.03172e-026	1.00000e+000	-0.34593	-1.29164	Alcohol	-1
BZol	1.94394e-008	1.09192e-025	1.00000e+000	-0.43263	-0.98861	Alcohol	-3561300
1-Heptanol	1.51245e-008	-4.92811e-025	1.00000e+000	-0.49250	-1.46322	Alcohol	-4288700
2-Heptanol	1.51145e-008	-9.59980e-021	1.00000e+000	-0.02306	-0.66346	Alcohol	-4320000
Acetone	5.09826e-009	5.86458e-027	1.00000e+000	-0.00679	-0.19449	Ketone	-1659170
M-E-Ketone	9.80626e-009	-1.45619e-026	1.00000e+000	-0.01799	-0.22743	Ketone	-2261620
Formaldehyde	-5.75360e-009	6.82162e-026	1.00000e+000	-0.16098	-0.34880	Aldehyde	-519441
AcetAldehyde	5.95372e-009	7.56214e-026	1.00000e+000	-0.14923	-0.37325	Aldehyde	-1104620
Propanal	5.31833e-009	1.75937e-025	1.00000e+000	-0.12263	-0.50304	Aldehyde	-1685690
n-Butanal	7.22195e-009	2.76676e-025	1.00000e+000	-0.03890	-0.21578	Aldehyde	-2303450
i-Butanal	1.59302e-008	3.56766e-025	1.00000e+000	-0.00622	-0.29976	Aldehyde	-2291300
n-Pentanal	7.90994e-009	-2.17433e-025	1.00000e+000	0.17317	-0.15388	Aldehyde	-2910470

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
BZal	97	106.124	694.80	46.50000	0.32400	0.31828	0.30500	0.31600
M-Formate	98	60.052	487.20	60.00000	0.17200	0.16931	0.25698	0.25698
VinylFormate	99	72.064	475.00	57.70000	0.20995	0.21894	0.55000	0.55000
VinylAcetate	100	86.091	525.00	43.50000	0.26499	0.26690	0.34000	0.33618
VinylCl	101	62.492	425.00	51.50000	0.17900	0.17215	0.12200	0.12928
FormicAcid	102	46.025	570.00	55.00000	0.11200	0.11699	0.35249	0.46998
AceticAcid	103	60.052	592.70	57.70000	0.17100	0.17407	0.44699	0.43099
BZoicAcid	104	122.124	752.00	45.60000	0.34099	0.39298	0.62000	0.62000
OleicAcid	105	282.467	770.00	13.90000	1.00000	1.02015	1.17820	0.31633
F2	106	37.997	144.30	52.20000	0.06630	0.06690	0.05400	0.04930
Bromine	107	159.807	588.00	103.00000	0.12720	0.14767	0.10800	0.10800
Iodine	108	253.820	1092.15	117.53400	0.15500	0.19009	0.12300	0.12300
Refrig-11	109	137.367	471.20	44.07600	0.24796	0.24603	0.19099	0.18704
Refrig-12	110	120.913	385.00	41.23900	0.21694	0.21468	0.17599	0.16990
Refrig-13	111	104.470	302.05	38.69900	0.18061	0.18061	0.17926	0.17470
Refrig-21	112	102.916	451.58	51.83800	0.19596	0.20160	0.20690	0.20690
Refrig-22	113	86.469	369.20	49.75000	0.16500	0.16369	0.21500	0.22145
R134a	114	102.030	380.00	36.90000	0.20300	0.19739	0.23911	0.23911
R-141b	115	116.946	482.88	43.85800	0.25250	0.25429	0.20546	0.20546
R-142b	116	100.499	410.20	41.20000	0.23100	0.23729	0.23600	0.23600
Refrig-40	117	50.488	416.30	67.00000	0.13887	0.13628	0.15297	0.14720
Refrig-113	118	187.389	487.25	34.36000	0.32530	0.32629	0.24500	0.25600
Refrig-500	119	99.310	378.55	44.27900	0.19458	0.24650	0.20630	0.21536
Refrig-502	120	111.597	355.37	40.68100	0.19697	0.23126	0.22900	0.22900
Phenol	121	94.113	694.20	61.20000	0.22900	0.28090	0.43799	0.42969
o-E-Phenol	122	122.166	702.00	34.20000	0.40000	0.37852	0.38449	0.38449
m-E-Phenol	123	122.166	718.80	41.50000	0.40000	0.39489	0.47453	0.47453
p-E-Phenol	124	122.166	716.40	40.50000	0.40000	0.41411	0.52401	0.52401
ETBE	125	102.180	517.11	31.14000	0.37850	0.38299	0.29173	0.29173
MTBE	126	88.150	496.40	33.70000	0.33000	0.33037	0.26899	0.26699
MSBE	127	88.150	500.08	34.31900	0.32750	0.33430	0.30819	0.30819
diM-Ether	128	46.069	400.00	53.20000	0.17800	0.18366	0.20000	0.19720
diE-Ether	129	74.123	466.70	36.20000	0.28000	0.28380	0.28099	0.28099
EGlycol	130	62.069	702.00	65.15200	0.18600	0.21198	0.56000	1.22800
DEGlycol	131	106.122	670.00	46.00000	0.31200	0.20214	1.20050	-1.38871
TEGlycol	132	150.169	727.00	14.18600	0.44600	0.34893	0.68997	-0.45581
n-C11	133	156.313	638.30	19.64900	0.66000	0.68651	0.53500	0.54220
n-C12	134	170.339	658.30	18.29900	0.71297	0.75581	0.56199	0.58069
n-C13	135	184.367	675.80	17.23500	0.77999	0.83173	0.62300	0.63400
n-C14	136	198.380	694.00	16.20200	0.82999	0.90219	0.67900	0.68207
n-C15	137	212.410	707.00	15.16800	0.87998	0.97724	0.70599	0.72539
n-C16	138	226.429	717.00	14.20600	0.93997	1.05391	0.76498	0.76670
n-C17	139	240.457	732.00	13.17200	1.00600	1.12083	0.76999	0.79460
n-C18	140	254.479	745.00	12.13800	1.07000	1.19893	0.80000	0.81239
n-C19	141	268.510	755.00	11.16600	1.13000	1.27153	0.82700	0.83279
n-C20	142	282.540	768.00	11.60000	1.19000	1.37530	0.90690	0.92390
n-C21	143	296.558	778.00	11.10000	1.24477	1.51365	0.94200	1.05050
n-C22	144	310.588	787.00	10.60000	1.30113	1.58956	0.97220	1.05600

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
BZal	451.90	1048.39	8.90	0.00000e+000	-1.21457e+001	2.48213e-001	-9.48930e-005
M-Formate	304.90	981.24	8.34	0.00000e+000	1.43294e+000	1.35088e-001	-6.50066e-005
VinylFormate	319.60	967.82	8.59	0.00000e+000	2.78281e+001	9.20077e-002	-1.18741e-005
VinylAcetate	346.00	937.53	9.11	0.00000e+000	2.16699e+001	1.54511e-001	-4.07000e-005
VinylCl	259.80	919.26	8.44	0.00000e+000	5.95287e+000	1.01016e-001	-5.12317e-005
FormicAcid	373.80	1225.18	7.15	0.00000e+000	1.17175e+001	6.79453e-002	-2.80546e-005
AceticAcid	391.10	1051.50	8.46	0.00000e+000	4.84318e+000	1.27525e-001	-5.84710e-005
BZoicAcid	523.00	1086.04	9.02	0.00000e+000	-5.12835e+001	3.14859e-001	-1.41323e-004
OleicAcid	632.00	893.43	11.68	9.94244e-005	-5.76699e+001	1.00078e+000	-5.24242e-004
F2	85.00	1500.00	3.57	0.00000e+000	2.32264e+001	1.82964e-002	-1.20512e-005
Bromine	331.90	3358.03	2.51	-2.60294e-007	3.38598e+001	5.62494e-003	-3.97327e-006
Iodine	457.50	4307.16	2.18	3.29271e-008	3.55602e+001	3.25740e-003	-2.32932e-006
Refrig-11	296.00	1495.00	5.42	0.00000e+000	4.09766e+001	8.14941e-002	-4.72070e-005
Refrig-12	243.40	1342.54	5.66	0.00000e+000	3.15934e+001	8.91139e-002	-5.02812e-005
Refrig-13	191.75	979.97	7.16	2.07760e+004	2.37983e+001	7.33931e-002	-5.91774e-019
Refrig-21	282.05	1363.18	5.85	1.31959e+003	2.46380e+001	7.99077e-002	-4.51248e-005
Refrig-22	232.40	1227.93	6.09	0.00000e+000	1.72938e+001	8.09008e-002	-3.89902e-005
R134a	247.15	1236.29	6.18	0.00000e+000	7.85080e+000	1.76189e-001	-1.12319e-004
R-141b	305.30	1252.18	6.54	-4.42989e-005	8.52649e+000	1.73660e-001	-1.05365e-004
R-142b	263.14	1124.26	6.93	-8.75995e-005	1.67654e+000	1.75696e-001	-1.03738e-004
Refrig-40	249.10	915.00	8.37	1.22350e+003	2.12351e+001	3.10306e-002	1.16803e-005
Refrig-113	320.72	1580.06	5.27	0.00000e+000	6.11261e+001	1.43705e-001	-8.06646e-005
Refrig-500	239.65	1137.96	6.64	3.37697e-002	8.65054e+001	-1.34868e-001	3.45429e-004
Refrig-502	227.54	1280.06	5.80	0.00000e+000	2.14824e+001	1.12456e-001	-5.74809e-005
Phenol	455.00	1055.93	8.86	0.00000e+000	-3.58617e+001	2.99349e-001	-1.61004e-004
o-E-Phenol	477.70	1036.96	9.17	0.00000e+000	-4.56332e+000	3.10562e-001	-1.33035e-004
m-E-Phenol	491.60	1024.96	9.37	0.00000e+000	-4.56332e+000	3.10562e-001	-1.33035e-004
p-E-Phenol	491.10	990.64	9.69	0.00000e+000	1.92035e+000	3.07164e-001	-1.21871e-004
ETBE	346.25	762.55	11.20	-8.02372e-005	-1.53906e+000	3.18252e-001	-1.21136e-004
MTBE	328.30	745.84	11.25	0.00000e+000	2.53567e+000	2.56970e-001	-8.65899e-005
MSBE	333.15	746.77	11.29	-2.86191e-005	2.21611e+001	2.10782e-001	-4.68004e-005
diM-Ether	248.30	670.30	11.41	0.00000e+000	1.70308e+001	8.96084e-002	-1.74581e-005
diE-Ether	307.60	712.00	11.53	0.00000e+000	2.14333e+001	1.68058e-001	-3.45218e-005
EGlycol	470.40	1110.71	8.52	0.00000e+000	-2.72545e+001	1.77269e-001	-4.33740e-019
DEGlycol	518.15	1121.42	8.71	-2.05500e+005	6.30401e+000	2.63169e-001	-1.19251e-004
TEGlycol	550.40	1128.45	8.83	0.00000e+000	-1.08446e+001	4.02138e-001	1.09708e-018
n-C11	469.04	742.85	12.72	6.42209e-007	-8.39498e+000	5.27000e-001	-1.93300e-004
n-C12	489.43	751.15	12.76	1.13723e-006	-9.32799e+000	5.74499e-001	-2.11563e-004
n-C13	508.58	758.81	12.80	4.41869e-006	-1.04600e+001	6.22497e-001	-2.30398e-004
n-C14	526.66	762.91	12.88	1.83252e-006	-1.09800e+001	6.68997e-001	-2.47431e-004
n-C15	543.77	770.41	12.89	2.38456e-006	-1.19200e+001	7.16497e-001	-2.65731e-004
n-C16	559.94	775.48	12.93	1.78072e-007	-1.30200e+001	7.64499e-001	-2.84565e-004
n-C17	575.30	780.19	12.97	-1.79850e-006	-1.39699e+001	8.11994e-001	-3.02692e-004
n-C18	589.86	784.09	13.01	3.27690e-006	-1.44699e+001	8.58498e-001	-3.19733e-004
n-C19	603.80	787.59	13.05	1.83190e-006	-1.54899e+001	9.05993e-001	-3.38325e-004
n-C20	616.90	790.70	13.10	1.48056e-006	-2.23800e+001	9.69494e-001	-3.72303e-004
n-C21	629.65	794.30	13.13	-9.65204e+003	8.43114e+001	8.48868e-001	-2.09496e-004
n-C22	641.80	796.80	13.17	-1.12976e+004	9.03190e+001	8.89307e-001	-2.19640e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
BZal	1.29252e-008	-4.82210e-026	1.00000e+000	0.46764	0.18671	Aldehyde	-3393130
M-Formate	1.42641e-008	-7.27641e-026	1.00000e+000	0.04140	-0.13865	Ester	-920897
VinylFormate	-5.84122e-008	-8.00427e-026	1.00000e+000	0.07508	-0.16414	Ester	-1350000
VinylAcetate	-8.25000e-010	-1.26048e-025	1.00000e+000	-0.00383	-0.23420	Ester	-1949000
VinylCl	1.19400e-008	1.86147e-025	1.00000e+000	0.00282	-0.10514	Halogen	-1157990
FormicAcid	5.04558e-009	9.06231e-026	1.00000e+000	-0.00835	-0.65029	CarbAcid	-211459
AceticAcid	1.23804e-008	9.09551e-027	1.00000e+000	-0.01100	-0.45063	CarbAcid	-786425
BZaicAcid	2.65671e-008	-3.69941e-026	1.00000e+000	-2.56522	-4.29125	CarbAcid	-3095070
OleicAcid	1.70616e-007	-2.52764e-011	1.00000e+000	0.21945	-0.71653	CarbAcid	-10500000
F2	3.01196e-009	-6.81017e-026	1.00000e+000	0.07441	-0.04014	Halogen	
Bromine	1.13349e-009	1.44645e-021	1.00000e+000	-0.52385	-0.04182	Halogen	
Iodine	7.08488e-010	-1.31565e-022	1.00000e+000	0.05821	0.07073	Halogen	
Refrig-11	1.03646e-008	-2.01123e-025	1.00000e+000	0.24149	-0.09675	Halogen	
Refrig-12	1.08537e-008	-1.95346e-025	1.00000e+000	0.18005	0.00131	Halogen	
Refrig-13	-9.28967e-022	4.27225e-025	1.00000e+000	0.07985	-0.15939	Halogen	
Refrig-21	1.30324e-008	-1.38170e-012	1.00000e+000	0.14494	-0.07418	Halogen	
Refrig-22	7.64599e-009	-6.54835e-026	1.00000e+000	0.20566	0.10546	Halogen	
R134a	3.96085e-008	-5.87245e-012	1.00000e+000	-0.23831	-0.32251	Halogen	-136400
R-141b	2.72049e-008	5.44652e-019	1.00000e+000	0.01394	-0.18975	Halogen	
R-142b	2.62775e-008	1.07476e-018	1.00000e+000	0.01509	-0.21893	Halogen	
Refrig-40	-1.43661e-008	3.65012e-012	1.00000e+000	-0.00168	-0.13390	Halogen	-675380
Refrig-113	1.72601e-008	-1.56102e-025	1.00000e+000	0.10824	-0.34999	Halogen	
Refrig-500	-2.43486e-007	-1.10357e-014	1.00000e+000	0.05275	-0.25681	Halogen	-163880
Refrig-502	9.86792e-009	-1.88746e-025	1.00000e+000	0.19009	-0.09955	Halogen	-163880
Phenol	3.81998e-008	9.50296e-026	1.00000e+000	-0.15518	-0.68528	Phenol	-2921450
o-E-Phenol	3.09618e-008	3.45397e-025	1.00000e+000	-0.02253	-0.33379	Phenol	
m-E-Phenol	3.09618e-008	3.45397e-025	1.00000e+000	-0.01536	-0.42721	Phenol	
p-E-Phenol	2.03249e-008	3.45397e-025	1.00000e+000	-1.02795	-2.59067	Phenol	-4133000
ETBE	1.93254e-008	9.78963e-019	1.00000e+000	0.00595	-0.26180	Ether	
MTBE	1.07642e-008	-1.24612e-025	1.00000e+000	0.09145	-0.18106	Ether	-3099920
MSBE	-1.74999e-009	3.57731e-019	1.00000e+000	0.38647	0.47250	Ether	
diM-Ether	-4.79795e-010	8.83838e-026	1.00000e+000	-0.07677	-0.00330	Ether	-1328420
diE-Ether	-2.34076e-009	-2.76927e-025	1.00000e+000	0.05441	-0.12939	Ether	-2503490
EGlycol	3.33725e-022	-7.52084e-026	1.00000e+000	-0.55269	-1.44798	Alcohol	-1657500
DEGlycol	3.11257e-008	-3.69832e-012	1.00000e+000	-0.65403	-1.84388	Alcohol	-2154990
TEGlycol	-9.00573e-022	3.03264e-025	1.00000e+000	-0.17213	-1.24694	Alcohol	-3249800
n-C11	3.09243e-008	-3.26329e-021	1.00000e+000	0.09020	-0.29723	HC	-6963610
n-C12	3.39743e-008	-5.80847e-021	1.00000e+000	0.08684	-0.32563	HC	-7578660
n-C13	3.72491e-008	-2.48514e-020	1.00000e+000	0.12642	-0.30338	HC	-8193660
n-C14	3.99492e-008	-8.80418e-021	1.00000e+000	0.12566	-0.31869	HC	-8808680
n-C15	4.29986e-008	-1.33795e-020	1.00000e+000	0.13772	-0.33985	HC	-9423670
n-C16	4.62490e-008	-5.57732e-022	1.00000e+000	0.16651	-0.33054	HC	-10038700
n-C17	4.92987e-008	1.01419e-020	1.00000e+000	0.17686	-0.33044	HC	-10653700
n-C18	5.19488e-008	-1.77282e-020	1.00000e+000	0.23001	-0.28975	HC	-11268700
n-C19	5.51238e-008	-9.00984e-021	1.00000e+000	0.26120	-0.28327	HC	-11883600
n-C20	6.31988e-008	-7.69768e-021	1.00000e+000	0.27595	-0.27919	HC	-12498800
n-C21	1.16521e-021	1.19779e-025	1.00000e+000	0.08021	-0.45331	HC	-12960000
n-C22	2.50490e-021	-6.89950e-025	1.00000e+000	0.09409	-0.42770	HC	-13570000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
n-C23	145	324.609	796.00	10.20000	1.35604	1.65594	1.02600	1.04770
n-C24	146	338.639	804.00	9.80000	1.41112	1.72065	1.07100	1.03155
n-C25	147	352.670	812.00	9.50000	1.46473	1.77467	1.10500	1.00136
n-C26	148	366.690	819.00	9.10000	1.51821	1.81428	1.15400	0.94980
n-C27	149	380.720	826.00	8.83000	1.57070	1.85397	1.21400	0.90008
n-C28	150	394.739	832.00	8.50000	1.62224	1.88941	1.23800	0.84548
n-C29	151	408.769	838.00	8.26000	1.67306	2.01171	1.26500	0.92403
n-C30	152	422.799	863.00	8.68000	1.72353	2.13333	1.30700	0.99190
223-Mbutane	153	100.205	531.17	29.53600	0.39800	0.41251	0.25999	0.25110
2-Mheptane	154	114.232	559.64	24.84400	0.48800	0.48894	0.38400	0.37799
3-Mheptane	155	114.232	563.67	25.46300	0.46399	0.48368	0.36899	0.36689
4-Mheptane	156	114.232	561.74	25.42100	0.47600	0.48412	0.36899	0.37079
3-Ehexane	157	114.232	565.49	26.08100	0.45500	0.45504	0.36399	0.36050
22-Mhexane	158	114.232	549.87	25.29100	0.47799	0.48287	0.34299	0.33739
23-Mhexane	159	114.232	563.49	26.28400	0.46799	0.47650	0.34000	0.34580
24-Mhexane	160	114.232	553.52	25.56400	0.47200	0.48113	0.34099	0.34250
33-Mhexane	161	114.232	562.02	26.53600	0.44299	0.44293	0.32600	0.32060
34-Mhexane	162	114.232	568.85	26.92100	0.46599	0.47220	0.32699	0.33759
2M-3Epentane	163	114.232	567.09	27.00300	0.44299	0.44293	0.34000	0.32980
3M-3Epentane	164	114.232	576.58	28.07600	0.45500	0.45504	0.29199	0.30370
223-Mpentane	165	114.232	563.50	27.29600	0.43599	0.46790	0.29699	0.29649
224-Mpentane	166	114.232	543.96	25.67600	0.46799	0.47894	0.31000	0.30450
233-Mpentane	167	114.232	573.56	28.19900	0.45500	0.46322	0.28999	0.28889
234-Mpentane	168	114.232	566.41	27.29600	0.46099	0.46889	0.31999	0.31439
33-Epentane	169	128.259	610.05	26.74900	0.47299	0.51270	0.33798	0.33649
2-Moctane	170	128.259	586.75	22.89900	0.54100	0.55238	0.41668	0.42250
3-Moctane	171	128.259	590.15	23.40600	0.52898	0.54828	0.41844	0.41844
4-Moctane	172	128.259	587.65	23.40600	0.52300	0.54706	0.41510	0.41510
3-Eheptane	173	128.259	590.55	24.01400	0.51099	0.54149	0.41615	0.40830
4-Eheptane	174	128.259	587.95	23.91300	0.50498	0.54092	0.41280	0.41280
22-Mheptane	175	128.259	577.75	23.20300	0.52600	0.54899	0.38999	0.39704
23-Mheptane	176	128.259	589.65	24.01400	0.51498	0.53829	0.38519	0.38479
24-Mheptane	177	128.259	576.85	23.40600	0.51700	0.54514	0.39741	0.39741
25-Mheptane	178	128.259	581.15	23.50600	0.52199	0.54588	0.40314	0.40314
26-Mheptane	179	128.259	577.95	23.00100	0.53499	0.55000	0.40171	0.40059
33-Mheptane	180	128.259	588.55	24.31800	0.50599	0.54193	0.35989	0.40503
34-Mheptane	181	128.259	591.95	24.62100	0.50300	0.53968	0.37869	0.41168
35-Mheptane	182	128.259	583.25	24.01400	0.50998	0.54263	0.40314	0.40314
44-Mheptane	183	128.259	585.45	24.31800	0.50098	0.54056	0.36359	0.40167
2M-3Ehexane	184	128.259	588.25	24.52100	0.49698	0.53582	0.37670	0.40382
2M-4Ehexane	185	128.259	580.15	24.01400	0.50400	0.54000	0.39908	0.39908
3M-3Ehexane	186	128.259	597.55	25.53400	0.48699	0.53121	0.35089	0.39245
3M-4Ehexane	187	128.259	593.85	25.12900	0.49000	0.53179	0.37029	0.39583
223-Mhexane	188	128.259	588.05	24.92600	0.49799	0.52828	0.33199	0.33489
224-Mhexane	189	128.259	573.65	23.81100	0.50700	0.53609	0.32100	0.34810
225-Mhexane	190	128.259	568.05	23.30400	0.51898	0.54079	0.35600	0.35690
233-Mhexane	191	128.259	596.15	25.53400	0.49099	0.53372	0.32989	0.39318
234-Mhexane	192	128.259	594.55	25.22900	0.49399	0.53223	0.35179	0.39362

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
n-C23	653.37	799.91	13.20	-1.29227e+004	9.61817e+001	9.29680e-001	-2.29796e-004
n-C24	664.43	801.36	13.24	-1.47244e+004	1.02777e+002	9.70028e-001	-2.39897e-004
n-C25	675.04	803.41	13.28	-1.64094e+004	1.08834e+002	1.01054e+000	-2.50059e-004
n-C26	685.37	805.37	13.32	-1.81984e+004	1.15324e+002	1.05093e+000	-2.60183e-004
n-C27	695.26	807.13	13.35	-1.99691e+004	1.21678e+002	1.09133e+000	-2.70325e-004
n-C28	704.76	808.40	13.39	-2.17237e+004	1.27974e+002	1.13132e+000	-2.80476e-004
n-C29	713.93	810.34	13.42	-2.35708e+004	1.34607e+002	1.17215e+000	-2.90600e-004
n-C30	722.87	811.90	13.45	-2.54216e+004	1.41341e+002	1.21259e+000	-3.00731e-004
223-Mbutane	354.03	693.25	12.41	8.61932e+003	1.55115e+001	2.83229e-001	-6.75698e-005
2-Mheptane	390.80	700.82	12.69	1.43335e+004	-6.89573e+000	3.89360e-001	-1.41077e-004
3-Mheptane	392.08	708.56	12.57	6.71204e+003	2.12243e+001	3.23562e-001	-7.76545e-005
4-Mheptane	390.86	707.49	12.57	6.74539e+003	2.13726e+001	3.23538e-001	-7.76111e-005
3-Ehexane	391.69	716.47	12.42	7.57107e+003	1.75915e+001	3.23939e-001	-7.79675e-005
22-Mhexane	379.99	698.39	12.62	7.14704e+003	2.25608e+001	3.23116e-001	-7.72421e-005
23-Mhexane	388.76	715.01	12.42	7.75293e+003	1.74649e+001	3.23848e-001	-7.79103e-005
24-Mhexane	382.58	703.26	12.56	7.28183e+003	2.10758e+001	3.23334e-001	-7.74408e-005
33-Mhexane	385.12	712.85	12.42	7.94517e+003	1.74649e+001	3.23767e-001	-7.78247e-005
34-Mhexane	390.88	721.96	12.32	8.29220e+003	1.48502e+001	3.24168e-001	-7.81799e-005
2M-3Epentane	388.80	722.33	12.29	8.58511e+003	1.41417e+001	3.24179e-001	-7.81959e-005
3M-3Epentane	391.42	730.17	12.19	9.24114e+003	1.12611e+001	3.24522e-001	-7.84929e-005
223-Mpentane	382.99	718.65	12.29	8.85479e+003	1.42217e+001	3.24019e-001	-7.80531e-005
224-Mpentane	372.39	694.96	12.59	1.40437e+004	-4.16259e+001	4.87337e-001	-2.60618e-004
233-Mpentane	387.91	729.04	12.17	9.52832e+003	1.08077e+001	3.24476e-001	-7.84507e-005
234-Mpentane	386.62	721.96	12.28	8.80535e+003	1.25654e+001	3.24168e-001	-7.81799e-005
33-Epentane	419.33	755.97	12.04	1.05172e+004	7.83791e+000	3.65538e-001	-8.91857e-005
2-Moctane	416.43	716.10	12.69	5.46165e+003	2.68700e+001	3.63677e-001	-8.75260e-005
3-Moctane	417.38	723.07	12.57	6.13694e+003	2.37792e+001	3.64038e-001	-8.78300e-005
4-Moctane	415.59	723.07	12.55	6.34663e+003	2.32790e+001	3.64038e-001	-8.78300e-005
3-Eheptane	416.15	729.42	12.45	7.07041e+003	2.03162e+001	3.64320e-001	-8.81005e-005
4-Eheptane	414.35	730.93	12.41	7.48815e+003	1.90465e+001	3.64384e-001	-8.81647e-005
22-Mheptane	405.85	713.21	12.63	6.37101e+003	2.54338e+001	3.63550e-001	-8.73977e-005
23-Mheptane	413.65	728.66	12.44	7.27485e+003	1.99943e+001	3.64307e-001	-8.80685e-005
24-Mheptane	406.05	717.92	12.55	6.87635e+003	2.31508e+001	3.63781e-001	-8.76055e-005
25-Mheptane	409.15	719.75	12.55	6.71795e+003	2.31379e+001	3.63743e-001	-8.76863e-005
26-Mheptane	408.37	711.77	12.68	5.92557e+003	2.68188e+001	3.63358e-001	-8.73349e-005
33-Mheptane	410.17	728.29	12.41	7.65783e+003	1.91747e+001	3.64256e-001	-8.80531e-005
34-Mheptane	413.75	733.97	12.35	7.97257e+003	1.73791e+001	3.64551e-001	-8.82917e-005
35-Mheptane	409.15	724.92	12.46	7.35052e+003	2.05856e+001	3.63998e-001	-8.79095e-005
44-Mheptane	408.35	728.29	12.39	7.88511e+003	1.86613e+001	3.64256e-001	-8.80531e-005
2M-3Ehexane	411.15	736.26	12.29	8.62196e+003	1.54550e+001	3.64640e-001	-8.83879e-005
2M-4Ehexane	406.95	726.42	12.41	7.81521e+003	1.91747e+001	3.64191e-001	-8.79735e-005
3M-3Ehexane	413.75	744.02	12.18	9.41460e+003	1.22927e+001	3.65012e-001	-8.87073e-005
3M-4Ehexane	413.55	742.46	12.21	9.20836e+003	1.30180e+001	3.64948e-001	-8.86431e-005
223-Mhexane	406.76	732.06	12.31	8.59821e+003	1.63003e+001	3.64448e-001	-8.82122e-005
224-Mhexane	399.70	718.29	12.48	7.70144e+003	2.11754e+001	3.63807e-001	-8.76222e-005
225-Mhexane	397.24	716.83	12.48	7.83445e+003	2.12012e+001	3.63730e-001	-8.75568e-005
233-Mhexane	410.84	740.12	12.22	9.21772e+003	1.34154e+001	3.64832e-001	-8.85482e-005
234-Mhexane	412.21	741.68	12.21	9.26761e+003	1.30307e+001	3.64897e-001	-8.86111e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
n-C23	-1.27542e-021	3.60549e-025	1.00000e+000	0.12178	-0.42515	HC	-14170000
n-C24	-5.04208e-021	1.50453e-024	1.00000e+000	0.07006	-0.49296	HC	-14790000
n-C25	1.96912e-021	-8.19043e-025	1.00000e+000	0.03774	-0.53745	HC	-15390000
n-C26	7.20382e-021	-1.62915e-024	1.00000e+000	-0.00264	-0.58512	HC	-16000000
n-C27	-3.46417e-021	9.61072e-025	1.00000e+000	-0.05088	-0.65288	HC	-16600000
n-C28	3.18357e-021	-2.07264e-024	1.00000e+000	-0.32642	-0.94370	HC	-17220000
n-C29	2.78954e-021	-9.90603e-025	1.00000e+000	-0.20216	-0.81097	HC	-17820000
n-C30	-8.74328e-022	-4.26918e-025	1.00000e+000	-0.30101	-0.91807	HC	-18430000
223-Mbutane	4.14438e-023	1.11299e-025	1.00000e+000	-0.02080	-0.47383	HC	-4486440
2-Mheptane	1.97503e-008	9.21368e-013	1.00000e+000	0.03993	-0.24932	HC	-5111440
3-Mheptane	4.25207e-022	-9.22759e-026	1.00000e+000	0.02356	-0.25633	HC	-5114280
4-Mheptane	4.01585e-022	-2.30690e-025	1.00000e+000	0.03396	-0.22450	HC	-5114830
3-Ehexane	3.14181e-021	-5.76724e-025	1.00000e+000	-0.01563	-0.24625	HC	-5116080
22-Mhexane	9.68528e-022	8.07414e-026	1.00000e+000	0.02741	-0.30781	HC	-5102210
23-Mhexane	1.22838e-021	-6.22862e-025	1.00000e+000	0.02273	-0.25134	HC	-5112980
24-Mhexane	8.97660e-022	6.92069e-026	1.00000e+000	-0.00341	-0.28444	HC	-5107540
33-Mhexane	1.18113e-022	-6.92069e-026	1.00000e+000	0.01575	-0.25231	HC	-5106790
34-Mhexane	2.36226e-023	3.11431e-025	1.00000e+000	0.03015	-0.21750	HC	-5113950
2M-3Epentane	-2.74022e-021	8.42017e-025	1.00000e+000	0.01707	-0.22450	HC	-5115750
3M-3Epentane	1.41736e-021	-2.53759e-025	1.00000e+000	-0.01842	-0.30860	HC	-5111930
223-Mpentane	2.22053e-021	-1.17652e-024	1.00000e+000	0.06936	-0.27044	HC	-5106830
224-Mpentane	9.82242e-008	-1.78437e-011	1.00000e+000	0.07948	-0.24127	HC	-5102750
233-Mpentane	1.29924e-021	-2.07621e-025	1.00000e+000	0.01343	-0.34143	HC	-5110500
234-Mpentane	-4.25207e-021	9.22759e-025	1.00000e+000	0.05064	-0.23962	HC	-5109460
33-Epentane	1.69749e-021	1.03607e-025	1.00000e+000	-0.00960	-0.35152	HC	-5684300
2-Moctane	5.56990e-022	0.00000e+000	1.00000e+000	0.03374	-0.29188	HC	-5679100
3-Moctane	0.00000e+000	1.29509e-025	1.00000e+000	0.01319	-0.30145	HC	-5681100
4-Moctane	2.65233e-021	-8.93609e-025	1.00000e+000	0.03868	-0.26333	HC	-5680100
3-Eheptane	2.28101e-021	-7.64100e-025	1.00000e+000	-0.00588	-0.29872	HC	
4-Eheptane	-5.83514e-022	-2.07214e-025	1.00000e+000	-0.00700	-0.27575	HC	
22-Mheptane	-2.91757e-022	3.49673e-025	1.00000e+000	0.00589	-0.35984	HC	
23-Mheptane	-2.33405e-021	4.01476e-025	1.00000e+000	0.32706	0.09704	HC	
24-Mheptane	-3.18280e-021	7.38198e-025	1.00000e+000	0.06306	-0.23115	HC	
25-Mheptane	-8.22224e-022	9.06560e-026	1.00000e+000	0.03511	-0.28141	HC	
26-Mheptane	-2.04230e-021	5.95739e-025	1.00000e+000	0.03773	-0.29405	HC	
33-Mheptane	-1.22007e-021	-3.88526e-026	1.00000e+000	0.01432	-0.31812	HC	
34-Mheptane	-1.40574e-021	9.45412e-025	1.00000e+000	0.02280	-0.26436	HC	
35-Mheptane	7.16130e-022	-2.97870e-025	1.00000e+000	0.04450	-0.25251	HC	
44-Mheptane	-1.11398e-021	1.94263e-025	1.00000e+000	0.02258	-0.26245	HC	
2M-3Ehexane	-2.65233e-022	2.33115e-025	1.00000e+000	0.09941	-0.15679	HC	
2M-4Ehexane	5.83514e-022	-3.62624e-025	1.00000e+000	0.03020	-0.25575	HC	
3M-3Ehexane	1.27312e-021	-1.81312e-025	1.00000e+000	0.00258	-0.28402	HC	
3M-4Ehexane	1.56488e-021	-5.82788e-025	1.00000e+000	0.01856	-0.24635	HC	
223-Mhexane	-5.35772e-021	8.80658e-025	1.00000e+000	0.06282	-0.28946	HC	
224-Mhexane	3.05018e-021	-3.88526e-026	1.00000e+000	0.10079	-0.24513	HC	
225-Mhexane	-1.06093e-021	3.88526e-026	1.00000e+000	0.03186	-0.36585	HC	
233-Mhexane	3.12975e-021	-1.42459e-025	1.00000e+000	0.03782	-0.29067	HC	
234-Mhexane	-2.59929e-021	4.92132e-025	1.00000e+000	0.05816	-0.24853	HC	

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
235-Mhexane	193	128.259	579.25	24.01400	0.50900	0.54021	0.36348	0.39454
244-Mhexane	194	128.259	581.65	24.31800	0.50000	0.53961	0.34270	0.39326
334-Mhexane	195	128.259	602.35	26.24300	0.48399	0.52783	0.32649	0.38113
22M3Epentane	196	128.259	590.55	25.53400	0.48600	0.53333	0.33008	0.38765
23M3Epentane	197	128.259	606.85	26.85100	0.47699	0.52253	0.34670	0.38102
24M3Epentane	198	128.259	591.25	25.22900	0.48899	0.53152	0.35080	0.38916
2233Mpentane	199	128.259	610.85	27.35800	0.47799	0.50862	0.27930	0.27930
2234Mpentane	200	128.259	592.15	26.04100	0.49000	0.51980	0.31299	0.31220
2244Mpentane	201	128.259	571.35	24.79400	0.50400	0.53766	0.31200	0.37790
2334Mpentane	202	128.259	609.05	26.95100	0.48100	0.51270	0.31299	0.31169
33-Ehexane	203	142.285	627.93	24.13100	0.50976	0.58885	0.37569	0.43209
34-Ehexane	204	142.285	618.93	23.30400	0.51866	0.59683	0.40400	0.44758
2-Mnonane	205	142.285	610.37	20.95900	0.59592	0.61667	0.46140	0.46140
3-Mnonane	206	142.285	613.54	21.37400	0.58170	0.61211	0.46283	0.46283
4-Mnonane	207	142.285	610.54	21.37400	0.57462	0.61040	0.45892	0.45719
5-Mnonane	208	142.285	609.76	21.37400	0.57283	0.61078	0.45778	0.45778
3-Eoctane	209	142.285	613.76	21.85600	0.56129	0.60605	0.46042	0.46042
4-Eoctane	210	142.285	609.76	21.78600	0.55150	0.60556	0.45504	0.45504
22-Moctane	211	142.285	602.04	21.30400	0.57994	0.61246	0.42070	0.44222
23-Moctane	212	142.285	613.26	21.85600	0.56660	0.60711	0.42550	0.45631
24-Moctane	213	142.285	599.43	21.37400	0.56572	0.60978	0.44034	0.44034
25-Moctane	214	142.285	603.15	21.51100	0.56928	0.60860	0.44527	0.44527
26-Moctane	215	142.285	603.15	21.51100	0.57550	0.61106	0.44887	0.44887
27-Moctane	216	142.285	603.04	20.95900	0.58969	0.61347	0.44789	0.44319
33-Moctane	217	142.285	612.26	22.20100	0.55685	0.60491	0.42649	0.45041
34-Moctane	218	142.285	614.04	22.40800	0.55062	0.60132	0.41960	0.45451
35-Moctane	219	142.285	606.37	21.85600	0.55506	0.60448	0.42598	0.44694
36-Moctane	220	142.285	608.37	21.85600	0.56217	0.60583	0.42550	0.44958
44-Moctane	221	142.285	606.93	22.06300	0.54795	0.60596	0.42440	0.44339
45-Moctane	222	142.285	612.26	22.40800	0.54619	0.59863	0.42160	0.45091
4n-Pheptane	223	142.285	601.15	21.78600	0.54531	0.60294	0.44339	0.44339
4-i-Pheptane	224	142.285	607.76	22.25000	0.53731	0.60284	0.41859	0.44600
2M-3Eheptane	225	142.285	610.93	22.25000	0.54351	0.60070	0.41909	0.45041
2M-4Eheptane	226	142.285	601.87	21.85600	0.54531	0.60276	0.44097	0.44097
2M-5Eheptane	227	142.285	606.87	21.85600	0.55506	0.60566	0.44758	0.44758
3M-3Eheptane	228	142.285	620.04	23.09600	0.53197	0.59801	0.40999	0.44896
3M-4Eheptane	229	142.285	614.43	22.82100	0.53021	0.59522	0.41310	0.44369
3M-5Eheptane	230	142.285	606.76	22.25000	0.54087	0.60105	0.41879	0.44475
4M-3Eheptane	231	142.285	615.54	22.82100	0.53285	0.59591	0.41290	0.44589
4M-4Eheptane	232	142.285	615.87	23.09600	0.52486	0.59455	0.40928	0.43887
223-Mheptane	233	142.285	611.87	22.68400	0.54619	0.60113	0.39719	0.44358
224-Mheptane	234	142.285	594.54	21.64900	0.55150	0.60496	0.41040	0.42607
225-Mheptane	235	142.285	598.04	21.64900	0.55861	0.60619	0.43075	0.43075
226-Mheptane	236	142.285	593.43	21.30400	0.57283	0.60794	0.42732	0.42732
233-Mheptane	237	142.285	617.65	23.23500	0.53820	0.59701	0.39140	0.44130
234-Mheptane	238	142.285	613.87	22.89100	0.53820	0.59622	0.44115	0.44115
235-Mheptane	239	142.285	612.87	22.40800	0.54707	0.60017	0.44947	0.44947
236-Mheptane	240	142.285	604.26	21.85600	0.55952	0.60434	0.44056	0.44056

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
235-Mhexane	404.50	724.92	12.41	7.92974e+003	1.92504e+001	3.63998e-001	-8.79095e-005
244-Mhexane	403.81	726.42	12.38	8.21217e+003	1.83023e+001	3.64191e-001	-8.79735e-005
334-Mhexane	413.63	748.36	12.11	1.00877e+004	1.00405e+001	3.65218e-001	-8.88830e-005
22M3Epentane	406.99	737.42	12.23	9.32738e+003	1.36464e+001	3.64705e-001	-8.84354e-005
23M3Epentane	417.85	757.59	12.00	1.09740e+004	6.56058e+000	3.65602e-001	-8.92497e-005
24M3Epentane	409.85	740.51	12.20	9.40431e+003	1.29154e+001	3.64832e-001	-8.85636e-005
2233Mpentane	413.44	759.22	11.94	1.18366e+004	4.38197e+000	3.65665e-001	-8.93139e-005
2234Mpentane	406.18	741.68	12.15	1.00649e+004	1.12333e+001	3.64897e-001	-8.86111e-005
2244Mpentane	395.44	721.96	12.37	8.70799e+003	1.80832e+001	3.63986e-001	-8.77812e-005
2334Mpentane	414.72	757.18	11.98	1.13323e+004	5.82423e+000	3.65602e-001	-8.92344e-005
33-Ehexane	439.43	763.74	12.11	1.01482e+004	1.07607e+001	4.05911e-001	-9.92760e-005
34-Ehexane	437.04	753.55	12.25	8.75992e+003	1.56798e+001	4.05413e-001	-9.88334e-005
2-Mnonane	440.18	729.04	12.69	4.76299e+003	2.98081e+001	4.04161e-001	-9.77165e-005
3-Mnonane	440.93	735.88	12.58	5.57885e+003	2.63939e+001	4.04516e-001	-9.80366e-005
4-Mnonane	438.87	734.73	12.58	5.67219e+003	2.64366e+001	4.04458e-001	-9.79826e-005
5-Mnonane	438.26	735.11	12.57	5.79996e+003	2.60379e+001	4.04472e-001	-9.80011e-005
3-Eoctane	439.65	742.85	12.45	6.73947e+003	2.23100e+001	4.04872e-001	-9.83539e-005
4-Eoctane	436.82	740.90	12.46	6.81032e+003	2.25237e+001	4.04772e-001	-9.82672e-005
22-Moctane	430.04	727.16	12.63	5.74489e+003	2.79018e+001	4.04061e-001	-9.76297e-005
23-Moctane	437.49	740.51	12.47	6.66790e+003	2.29220e+001	4.04728e-001	-9.82487e-005
24-Moctane	429.04	729.04	12.59	6.11754e+003	2.66212e+001	4.04161e-001	-9.77165e-005
25-Moctane	431.65	732.82	12.55	6.30647e+003	2.53551e+001	4.04360e-001	-9.78944e-005
26-Moctane	433.56	730.55	12.60	5.75783e+003	2.71053e+001	4.04232e-001	-9.77891e-005
27-Moctane	433.04	727.16	12.66	5.37793e+003	2.87843e+001	4.04061e-001	-9.76297e-005
33-Moctane	434.37	741.68	12.42	7.24202e+003	2.13426e+001	4.04801e-001	-9.83013e-005
34-Moctane	436.54	747.57	12.34	7.86566e+003	1.87816e+001	4.05085e-001	-9.85674e-005
35-Moctane	432.54	739.35	12.44	7.13131e+003	2.20969e+001	4.04701e-001	-9.81960e-005
36-Moctane	433.93	738.96	12.46	6.89483e+003	2.26945e+001	4.04659e-001	-9.81775e-005
44-Moctane	430.65	737.03	12.46	7.03313e+003	2.27797e+001	4.04573e-001	-9.80880e-005
45-Moctane	435.30	749.55	12.30	8.34516e+003	1.73443e+001	4.05214e-001	-9.86556e-005
4n-Pheptane	430.65	738.57	12.44	7.26193e+003	2.19546e+001	4.04659e-001	-9.81604e-005
4-i-Pheptane	432.04	741.68	12.40	7.54537e+003	2.06740e+001	4.04801e-001	-9.83013e-005
2M-3Eheptane	434.37	746.38	12.34	7.96595e+003	1.87816e+001	4.05057e-001	-9.85147e-005
2M-4Eheptane	429.37	738.57	12.43	7.42913e+003	2.15562e+001	4.04659e-001	-9.81604e-005
2M-5Eheptane	432.87	738.19	12.47	6.91719e+003	2.28211e+001	4.04630e-001	-9.81419e-005
3M-3Eheptane	436.93	752.74	12.26	8.64353e+003	1.60765e+001	4.05228e-001	-9.87979e-005
3M-4Eheptane	435.37	753.15	12.24	8.91956e+003	1.53666e+001	4.05228e-001	-9.88148e-005
3M-5Eheptane	431.37	743.24	12.37	7.87448e+003	1.96208e+001	4.04872e-001	-9.83724e-005
4M-3Eheptane	436.15	753.15	12.25	8.81427e+003	1.56226e+001	4.05228e-001	-9.88148e-005
4M-4Eheptane	433.93	753.55	12.22	9.18251e+003	1.47123e+001	4.05413e-001	-9.88334e-005
223-Mheptane	430.76	744.81	12.34	8.20003e+003	1.85682e+001	4.04943e-001	-9.84436e-005
224-Mheptane	421.43	730.17	12.49	7.24985e+003	2.37471e+001	4.04218e-001	-9.77706e-005
225-Mheptane	423.93	730.93	12.50	7.02986e+003	2.40889e+001	4.04232e-001	-9.78061e-005
226-Mheptane	422.10	726.42	12.56	6.64484e+003	2.59670e+001	4.04018e-001	-9.75940e-005
233-Mheptane	433.37	751.54	12.25	8.92853e+003	1.56511e+001	4.05299e-001	-9.87438e-005
234-Mheptane	433.04	751.15	12.25	8.90846e+003	1.57794e+001	4.05299e-001	-9.87267e-005
235-Mheptane	433.87	747.57	12.32	8.21981e+003	1.79988e+001	4.05085e-001	-9.85674e-005
236-Mheptane	429.15	737.42	12.44	7.28626e+003	2.21381e+001	4.04587e-001	-9.81064e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
235-Mhexane	-1.06093e-022	-3.62624e-025	1.00000e+000	0.05764	-0.26717	HC	
244-Mhexane	-1.03441e-021	-5.30985e-025	1.00000e+000	0.03378	-0.29234	HC	
334-Mhexane	-1.77706e-021	2.84919e-025	1.00000e+000	0.05642	-0.26528	HC	
22M3Epentane	-1.69749e-021	6.99346e-025	1.00000e+000	0.07403	-0.26960	HC	
23M3Epentane	1.59140e-021	-6.73444e-025	1.00000e+000	0.04611	-0.29469	HC	
24M3Epentane	-2.91757e-022	-1.81312e-025	1.00000e+000	0.05254	-0.26640	HC	
2233Mpentane	1.04767e-021	-9.06560e-026	1.00000e+000	0.05025	-0.42438	HC	-5681500
2234Mpentane	2.09534e-021	-1.94263e-025	1.00000e+000	0.09303	-0.30930	HC	-5682000
2244Mpentane	5.83514e-022	9.06560e-026	1.00000e+000	0.10362	-0.35337	HC	-5679800
2334Mpentane	8.22224e-022	7.77051e-026	1.00000e+000	0.08058	-0.30561	HC	
33-Ehexane	2.44218e-021	-1.02007e-024	1.00000e+000	0.12962	-0.19504	HC	
34-Ehexane	-1.32407e-021	-1.43671e-026	1.00000e+000	0.15410	-0.19143	HC	
2-Mnonane	-8.53292e-022	-5.45950e-025	1.00000e+000	-0.02053	-0.40073	HC	
3-Mnonane	1.97140e-021	-3.73545e-025	1.00000e+000	-0.01767	-0.37994	HC	
4-Mnonane	1.76543e-022	-2.44241e-025	1.00000e+000	-0.13594	-0.51174	HC	
5-Mnonane	7.65020e-022	-1.29304e-025	1.00000e+000	-0.04033	-0.40531	HC	
3-Eoctane	3.03066e-021	-6.60887e-025	1.00000e+000	-0.01187	-0.37117	HC	
4-Eoctane	-4.03107e-021	9.76964e-025	1.00000e+000	-0.00195	-0.36169	HC	
22-Moctane	1.08868e-021	-4.88482e-025	1.00000e+000	0.16254	-0.18231	HC	
23-Moctane	-2.05967e-021	5.31583e-025	1.00000e+000	0.11856	-0.23148	HC	
24-Moctane	-9.41563e-022	-3.16077e-025	1.00000e+000	0.16977	-0.18004	HC	
25-Moctane	-1.35350e-021	6.75254e-025	1.00000e+000	0.16140	-0.19038	HC	
26-Moctane	5.91419e-021	-1.12064e-024	1.00000e+000	0.17497	-0.17362	HC	
27-Moctane	-1.11811e-021	4.74115e-025	1.00000e+000	0.15104	-0.20656	HC	
33-Moctane	-1.67716e-021	3.59178e-025	1.00000e+000	0.15207	-0.19221	HC	
34-Moctane	3.58971e-021	-6.46520e-025	1.00000e+000	0.15047	-0.19965	HC	
35-Moctane	-1.02984e-021	7.18356e-026	1.00000e+000	0.16166	-0.18960	HC	
36-Moctane	1.53004e-021	-9.91331e-025	1.00000e+000	0.15578	-0.19505	HC	
44-Moctane	-2.05967e-022	-2.44241e-025	1.00000e+000	0.16400	-0.17892	HC	
45-Moctane	-1.00041e-021	3.30444e-025	1.00000e+000	0.15497	-0.19539	HC	
4n-Pheptane	-1.29465e-021	3.30444e-025	1.00000e+000	0.17091	-0.18648	HC	-163880
4-i-Pheptane	-2.26564e-021	2.87342e-025	1.00000e+000	0.16466	-0.18430	HC	
2M-3Eheptane	-2.38333e-021	2.44241e-025	1.00000e+000	0.15845	-0.19221	HC	
2M-4Eheptane	-1.97140e-021	3.73545e-025	1.00000e+000	0.17098	-0.17960	HC	
2M-5Eheptane	-2.17737e-021	5.31583e-025	1.00000e+000	0.16098	-0.19032	HC	
3M-3Eheptane	1.61831e-021	-6.32153e-025	1.00000e+000	0.14954	-0.19109	HC	
3M-4Eheptane	-4.11934e-022	-1.00570e-025	1.00000e+000	0.15726	-0.19099	HC	-163880
3M-5Eheptane	1.35350e-021	-3.87912e-025	1.00000e+000	0.16437	-0.18343	HC	-163880
4M-3Eheptane	-1.44177e-021	1.58038e-025	1.00000e+000	0.15487	-0.19336	HC	
4M-4Eheptane	2.32448e-021	-5.02849e-025	1.00000e+000	0.15748	-0.18242	HC	
223-Mheptane	2.70699e-021	-3.16077e-025	1.00000e+000	0.15523	-0.17665	HC	
224-Mheptane	-4.70782e-022	1.43671e-025	1.00000e+000	0.18375	-0.14846	HC	
225-Mheptane	-7.65020e-022	7.18356e-026	1.00000e+000	0.17553	-0.15792	HC	
226-Mheptane	1.23580e-021	-1.00570e-025	1.00000e+000	0.17856	-0.15421	HC	
233-Mheptane	-5.00205e-022	-5.17216e-025	1.00000e+000	0.14891	-0.18102	HC	
234-Mheptane	-1.61831e-021	7.47090e-025	1.00000e+000	0.15433	-0.18384	HC	
235-Mheptane	1.11811e-021	1.72405e-025	1.00000e+000	0.15636	-0.18645	HC	
236-Mheptane	-3.23662e-021	4.31013e-025	1.00000e+000	0.16379	-0.17734	HC	

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
244-Mheptane	241	142.285	600.37	22.20100	0.54087	0.60197	0.43116	0.43116
245-Mheptane	242	142.285	606.93	22.40800	0.54351	0.59965	0.44150	0.44150
246-Mheptane	243	142.285	590.37	21.51100	0.55952	0.60715	0.42482	0.42482
255-Mheptane	244	142.285	602.93	22.20100	0.54974	0.59890	0.43459	0.43459
334-Mheptane	245	142.285	622.15	23.71800	0.52577	0.59052	0.43055	0.43055
335-Mheptane	246	142.285	609.15	23.20300	0.53731	0.58950	0.38198	0.38269
344-Mheptane	247	142.285	621.04	23.71800	0.52398	0.58902	0.42704	0.42704
345-Mheptane	248	142.285	619.65	23.37300	0.52932	0.59096	0.43373	0.43373
2M3i-Phexane	249	142.285	623.43	22.89100	0.52932	0.60315	0.39289	0.46083
22M-3Ehexane	250	142.285	611.76	23.09600	0.52577	0.59398	0.36959	0.43088
22M-4Ehexane	251	142.285	594.76	22.20100	0.53908	0.59938	0.38820	0.42408
23M-3Ehexane	252	142.285	626.93	24.20100	0.51599	0.58537	0.35679	0.42397
23M-4Ehexane	253	142.285	617.37	23.37300	0.52398	0.59012	0.38449	0.43044
24M-3Ehexane	254	142.285	616.26	23.37300	0.52222	0.58995	0.38409	0.42928
24M-4Ehexane	255	142.285	621.04	23.71800	0.52398	0.59034	0.36438	0.42943
25M-3Ehexane	256	142.285	603.54	22.40800	0.53731	0.59885	0.39939	0.43700
33M-4Ehexane	257	142.285	625.76	24.20100	0.51332	0.58485	0.35679	0.42267
34M-3Ehexane	258	142.285	624.65	24.20100	0.51067	0.58472	0.35679	0.42173
2233-Mhexane	259	142.285	628.26	25.12900	0.51775	0.57370	0.38198	0.36460
2234-Mhexane	260	142.285	620.43	23.71800	0.52486	0.59056	0.34400	0.42598
2235-Mhexane	261	142.285	601.37	22.68400	0.53996	0.59833	0.35690	0.42627
2244-Mhexane	262	142.285	610.37	22.47600	0.53465	0.59513	0.34259	0.42886
2245-Mhexane	263	142.285	598.54	22.20100	0.54351	0.59952	0.36430	0.42535
2255-Mhexane	264	142.285	582.93	21.88600	0.55685	0.59920	0.37500	0.37599
2334-Mhexane	265	142.285	633.15	24.82100	0.51419	0.58217	0.33180	0.42153
2335-Mhexane	266	142.285	610.15	23.23500	0.53109	0.59227	0.35130	0.42318
2344-Mhexane	267	142.285	626.65	24.20100	0.51775	0.58585	0.33660	0.42149
2345-Mhexane	268	142.285	613.37	23.37300	0.53021	0.59363	0.36309	0.42976
3344-Mhexane	269	142.285	646.87	25.71600	0.50621	0.57637	0.32390	0.42162
24M3iPpentan	270	142.285	614.54	23.37300	0.52130	0.58498	0.36359	0.41696
2M33Epentane	271	142.285	639.93	25.30400	0.50089	0.57677	0.34439	0.42285
223M3Epentan	272	142.285	646.15	25.71600	0.50268	0.57608	0.30559	0.42092
224M3Epentan	273	142.285	615.43	23.71800	0.51775	0.58547	0.34409	0.41459
234M3Epentan	274	142.285	642.43	25.44100	0.50621	0.57915	0.32629	0.42383
22334Mpentan	275	142.285	643.93	25.85500	0.50801	0.57656	0.28979	0.41729
22344Mpentan	276	142.285	627.37	23.99400	0.52130	0.58186	0.30439	0.41510
Cyclopropane	277	42.081	397.81	54.95100	0.17069	0.16098	0.12996	0.13050
Cyclobutane	278	56.108	459.93	49.84900	0.21013	0.21209	0.18095	0.14508
Spiro-C5	279	68.120	499.70	52.10000	0.23650	0.25300	0.22100	0.22100
1Mcycypentene	280	82.150	542.00	37.70000	0.31120	0.29901	0.21900	0.21900
3Mcycypentene	281	82.150	535.70	40.20000	0.29850	0.23938	0.22100	0.22100
Cycloheptane	282	98.189	604.20	38.10000	0.35299	0.36131	0.23700	0.30055
Cyclooctane	283	112.208	647.20	35.60000	0.40999	0.41196	0.23600	0.35150
Cyclononane	284	126.236	644.26	31.71600	0.51217	0.48043	0.50145	0.50145
Cyclodecane	285	140.268	667.04	29.64600	0.56910	0.50998	0.55826	0.28029
Ecyclopentan	286	98.189	569.52	33.97600	0.37446	0.37400	0.28259	0.26890
11Mcycypentan	287	98.189	547.04	34.47400	0.36160	0.37538	0.27397	0.26910
1-ci2-MCC5	288	98.189	564.82	34.47400	0.36772	0.37064	0.26899	0.26850

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
244-Mheptane	424.15	737.03	12.40	7.88983e+003	2.08305e+001	4.04573e-001	-9.80880e-005
245-Mheptane	429.65	744.41	12.33	8.28753e+003	1.84529e+001	4.04943e-001	-9.84265e-005
246-Mheptane	420.76	725.67	12.56	6.71671e+003	2.59670e+001	4.03990e-001	-9.75586e-005
255-Mheptane	425.97	742.46	12.33	8.47748e+003	1.83970e+001	4.04858e-001	-9.83369e-005
334-Mheptane	435.04	759.22	12.14	9.98272e+003	1.19102e+001	4.05653e-001	-9.90810e-005
335-Mheptane	428.85	745.59	12.30	8.58206e+003	1.75580e+001	4.05013e-001	-9.84792e-005
344-Mheptane	434.26	760.04	12.12	1.02312e+004	1.12078e+001	4.05724e-001	-9.91166e-005
345-Mheptane	435.65	758.41	12.16	9.75647e+003	1.25561e+001	4.05653e-001	-9.90454e-005
2M3i-Phexane	439.87	749.95	12.34	7.80304e+003	1.84971e+001	4.05228e-001	-9.86741e-005
22M-3Ehexane	429.26	751.15	12.22	9.42709e+003	1.45979e+001	4.05299e-001	-9.87267e-005
22M-4Ehexane	420.37	736.65	12.37	8.34146e+003	1.98488e+001	4.04559e-001	-9.80721e-005
23M-3Ehexane	436.87	766.22	12.05	1.09387e+004	8.56698e+000	4.06023e-001	-9.93812e-005
23M-4Ehexane	434.04	758.00	12.15	9.91368e+003	1.22793e+001	4.05626e-001	-9.90284e-005
24M-3Ehexane	433.26	757.59	12.15	9.95284e+003	1.22624e+001	4.05583e-001	-9.90097e-005
24M-4Ehexane	434.26	758.81	12.14	1.00213e+004	1.18940e+001	4.05653e-001	-9.90625e-005
25M-3Ehexane	427.26	743.24	12.33	8.42541e+003	1.83684e+001	4.04872e-001	-9.83724e-005
33M-4Ehexane	436.04	766.22	12.04	1.10565e+004	8.30276e+000	4.06023e-001	-9.93812e-005
34M-3Ehexane	435.26	765.81	12.04	1.10938e+004	8.28923e+000	4.06010e-001	-9.93642e-005
2233-Mhexane	433.49	766.64	12.01	1.14939e+004	7.25483e+000	4.06023e-001	-9.93997e-005
2234-Mhexane	431.93	757.59	12.14	1.01389e+004	1.18427e+001	4.05583e-001	-9.90097e-005
2235-Mhexane	421.54	740.90	12.31	8.83917e+003	1.78696e+001	4.04772e-001	-9.82672e-005
2244-Mhexane	426.93	748.76	12.23	9.35679e+003	1.51818e+001	4.05157e-001	-9.86214e-005
2245-Mhexane	421.05	738.19	12.35	8.48460e+003	1.92085e+001	4.04630e-001	-9.81419e-005
2255-Mhexane	410.62	721.59	12.53	7.49940e+003	2.51133e+001	4.03734e-001	-9.73636e-005
2334-Mhexane	437.77	772.09	11.96	1.18381e+004	5.55395e+000	4.06293e-001	-9.96302e-005
2335-Mhexane	426.26	751.15	12.19	9.84513e+003	1.36589e+001	4.05299e-001	-9.87267e-005
2344-Mhexane	434.76	764.98	12.05	1.10190e+004	8.59656e+000	4.05939e-001	-9.93286e-005
2345-Mhexane	429.37	751.95	12.20	9.54432e+003	1.41936e+001	4.05299e-001	-9.87623e-005
3344-Mhexane	443.15	784.53	11.82	1.33399e+004	2.55530e-001	4.06864e-001	-1.00143e-004
24M3iPpentan	430.21	760.86	12.07	1.09453e+004	9.46352e+000	4.05768e-001	-9.91522e-005
2M33Epentane	442.87	781.92	11.86	1.29015e+004	1.63897e+000	4.06764e-001	-1.00037e-004
223M3Epentan	442.65	784.53	11.82	1.34126e+004	9.43102e-002	4.06864e-001	-1.00143e-004
224M3Epentan	428.43	760.04	12.07	1.10577e+004	9.35252e+000	4.05724e-001	-9.91166e-005
234M3Epentan	442.62	779.76	11.89	1.25435e+004	2.77725e+000	4.06649e-001	-9.99490e-005
22334Mpentan	439.23	782.36	11.82	1.35117e+004	2.17056e-001	4.06779e-001	-1.00056e-004
22344Mpentan	432.46	769.15	11.96	1.20900e+004	5.50785e+000	4.06153e-001	-9.95065e-005
Cyclopropane	240.37	420.54	17.99	6.19145e-007	-3.52391e+001	1.90649e-001	-9.60326e-005
Cyclobutane	285.66	698.39	11.47	4.67281e-007	-5.02483e+001	2.51200e-001	-1.18599e-004
Spiro-C5	312.20	746.30	11.06	-2.85120e-006	-4.14879e+001	2.69385e-001	-1.27536e-004
1Mcyccpentene	347.00	784.52	10.90	-3.69645e-006	-2.94729e+001	2.48360e-001	-6.79330e-005
3Mcyccpentene	343.20	976.39	8.72	-4.51533e-006	-4.32281e+001	2.85848e-001	-1.09483e-004
Cycloheptane	391.95	813.92	10.94	1.75598e-006	-7.61898e+001	3.93348e-001	-1.40132e-004
Cyclooctane	424.31	838.57	10.90	2.10390e+004	-2.94097e+001	3.22654e-001	-8.05941e-005
Cyclononane	451.54	852.75	10.94	2.20695e+004	-3.16726e+001	3.63497e-001	-9.11103e-005
Cyclodecane	475.37	860.02	11.04	2.21834e+004	-3.13357e+001	4.04182e-001	-1.01482e-004
Ecyclopentan	376.62	769.57	11.42	6.37394e+003	-6.64740e+001	4.14682e-001	-2.08534e-004
11Mcyccpentan	360.63	757.59	11.43	1.38061e+004	-3.30013e+001	3.25938e-001	-8.71325e-005
1-ci2-MCC5	372.68	775.91	11.28	1.60785e+004	-1.39427e+001	2.80505e-001	-6.88625e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
244-Mheptane	-7.35596e-022	3.73545e-025	1.00000e+000	0.17542	-0.15692	HC	
245-Mheptane	-1.26523e-021	-1.43671e-026	1.00000e+000	0.16279	-0.17711	HC	
246-Mheptane	-6.50267e-021	1.36488e-024	1.00000e+000	0.18580	-0.14936	HC	
255-Mheptane	-7.65020e-022	2.29874e-025	1.00000e+000	0.17926	-0.15015	HC	
334-Mheptane	5.29629e-022	3.44811e-025	1.00000e+000	0.14832	-0.17994	HC	
335-Mheptane	-7.06172e-022	-5.02849e-025	1.00000e+000	0.16358	-0.16965	HC	
344-Mheptane	6.47325e-022	-5.74685e-026	1.00000e+000	0.15015	-0.17802	HC	
345-Mheptane	-4.41358e-022	1.43671e-025	1.00000e+000	0.15185	-0.18433	HC	
2M3i-Phexane	-1.55946e-021	6.17786e-025	1.00000e+000	0.14790	-0.19833	HC	
22M-3Ehexane	-2.20679e-021	6.32153e-025	1.00000e+000	0.16245	-0.16798	HC	
22M-4Ehexane	2.73642e-021	-7.90191e-025	1.00000e+000	0.18242	-0.14730	HC	
23M-3Ehexane	-3.29547e-021	4.74115e-025	1.00000e+000	0.14664	-0.17903	HC	
23M-4Ehexane	4.11934e-022	-1.00570e-025	1.00000e+000	0.16053	-0.17576	HC	
24M-3Ehexane	-3.03066e-021	5.31583e-025	1.00000e+000	0.15715	-0.17911	HC	
24M-4Ehexane	-2.53045e-021	2.87342e-025	1.00000e+000	0.14981	-0.17831	HC	
25M-3Ehexane	-2.11852e-021	7.47090e-025	1.00000e+000	0.16956	-0.16944	HC	
33M-4Ehexane	2.11852e-021	-7.75824e-025	1.00000e+000	0.14880	-0.17700	HC	
34M-3Ehexane	2.20679e-021	-1.86773e-025	1.00000e+000	0.15094	-0.17497	HC	
2233-Mhexane	-4.70782e-022	3.01709e-025	1.00000e+000	0.14383	-0.16482	HC	
2234-Mhexane	2.17737e-021	-2.01140e-025	1.00000e+000	0.15128	-0.16942	HC	
2235-Mhexane	-8.23868e-022	5.74685e-026	1.00000e+000	0.17181	-0.14733	HC	
2244-Mhexane	8.23868e-022	-2.15507e-025	1.00000e+000	0.16741	-0.15835	HC	
2245-Mhexane	-1.67716e-021	2.44241e-025	1.00000e+000	0.17791	-0.14620	HC	
2255-Mhexane	-4.41358e-022	3.16077e-025	1.00000e+000	0.20329	-0.10681	HC	
2334-Mhexane	2.73642e-021	2.01140e-025	1.00000e+000	0.14034	-0.17362	HC	
2335-Mhexane	-1.14753e-021	2.72975e-025	1.00000e+000	0.16166	-0.15894	HC	
2344-Mhexane	-3.23662e-022	-2.15507e-025	1.00000e+000	0.08033	-0.24808	HC	
2345-Mhexane	-4.85494e-021	1.19247e-024	1.00000e+000	0.15670	-0.16840	HC	
3344-Mhexane	4.41358e-023	-7.18356e-026	1.00000e+000	0.13425	-0.16861	HC	
24M3iPpentan	3.53086e-022	4.45381e-025	1.00000e+000	0.16110	-0.16832	HC	
2M33Epentane	1.76543e-021	-3.16077e-025	1.00000e+000	0.14158	-0.17723	HC	
223M3Epentan	-1.76543e-022	-1.00570e-025	1.00000e+000	0.13639	-0.16718	HC	
224M3Epentan	3.64856e-021	-2.01140e-025	1.00000e+000	0.15974	-0.16052	HC	
234M3Epentan	-1.98611e-021	-3.44811e-025	1.00000e+000	0.13549	-0.17572	HC	
22334Mpentan	-2.01553e-021	8.47660e-025	1.00000e+000	0.13131	-0.16389	HC	
22344Mpentan	3.29547e-021	-6.32153e-025	1.00000e+000	0.14979	-0.15993	HC	
Cyclopropane	2.25873e-008	-3.31057e-021	1.00000e+000	0.19355	0.48357	HC	
Cyclobutane	2.61748e-008	-2.35170e-021	1.00000e+000	0.10541	0.07095	HC	-2567800
Spiro-C5	2.72898e-008	6.39871e-020	1.00000e+000	0.07521	0.38024	HC	
1Mcycypentene	1.20214e-009	8.48047e-020	1.00000e+000	-0.02050	-0.25728	HC	
3Mcycypentene	1.74000e-008	1.07012e-019	1.00000e+000	-0.03519	-0.31873	HC	
Cycloheptane	1.89021e-008	-9.82415e-021	1.00000e+000	-0.19562	-0.68967	HC	-4289600
Cyclooctane	3.82867e-022	-7.02467e-025	1.00000e+000	-0.16448	-0.65468	HC	
Cyclononane	-1.85346e-021	2.54932e-026	1.00000e+000	-0.15703	-0.64701	HC	-163880
Cyclodecane	3.06021e-021	-6.94009e-025	1.00000e+000	-0.20791	-0.74471	HC	
Ecyclopentan	6.87270e-008	-1.10929e-011	1.00000e+000	0.07305	-0.19054	HC	-4322330
11Mcycypentan	-8.76381e-009	7.22648e-012	1.00000e+000	0.02835	-0.26197	HC	
1-ci2-MCC5	1.15739e-021	-2.67693e-025	1.00000e+000	0.01327	-0.27717	HC	-4280990

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
1-tr2-MCC5	289	98.189	553.15	34.47400	0.36160	0.37843	0.26899	0.26890
1-ci3-MCC5	290	98.189	550.93	35.43900	0.36160	0.38249	0.28422	0.28248
1-tr3-MCC5	291	98.189	553.15	34.47400	0.36160	0.37961	0.26330	0.26758
1-ci2-ECC5	292	126.236	624.54	27.76500	0.47751	0.48899	0.32510	0.35885
1-tr2-ECC5	293	126.236	617.87	27.05400	0.47751	0.49867	0.29989	0.37860
11-Mcycyhexan	294	112.208	590.93	29.64600	0.44900	0.42160	0.23800	0.23510
1-M-1-ECC5	295	112.208	592.04	29.88900	0.42166	0.43110	0.25000	0.31716
1M-ci2-ECC5	296	112.208	595.93	29.88900	0.42096	0.43059	0.29229	0.32422
1M-tr2-ECC5	297	112.208	588.15	29.38500	0.42096	0.43935	0.26949	0.33636
1M-ci3-ECC5	298	112.208	587.04	29.38500	0.42096	0.44064	0.27559	0.33954
1M-tr3-ECC5	299	112.208	587.59	28.97900	0.42096	0.44078	0.26660	0.33954
112-MCC5	300	112.208	579.54	29.38500	0.41675	0.42550	0.25200	0.25270
113-MCC5	301	112.208	569.54	28.26800	0.41675	0.43299	0.21096	0.21728
1ci2ci3-MCC5	302	112.208	586.48	29.38500	0.41606	0.43178	0.29859	0.32376
1ci2tr3-MCC5	303	112.208	579.82	28.97900	0.41606	0.43511	0.28290	0.32466
1tr2ci3-MCC5	304	112.208	572.04	28.26800	0.41604	0.44297	0.25459	0.32480
1ci2ci4-MCC5	305	112.208	579.82	28.87500	0.41604	0.43399	0.27700	0.32106
1ci2tr4-MCC5	306	112.208	579.26	28.77900	0.41604	0.43959	0.24600	0.33173
1tr2ci4-MCC5	307	112.208	570.93	28.11600	0.41604	0.44641	0.24616	0.32605
Ecyclohexane	308	112.208	609.26	30.33600	0.44828	0.42269	0.24300	0.24966
1-ci2-MCC6	309	112.208	605.93	29.64600	0.46228	0.42487	0.23600	0.30794
1-tr2-MCC6	310	112.208	595.93	29.64600	0.46228	0.43658	0.33041	0.33041
1-ci3-MCC6	311	112.208	590.93	29.64600	0.44826	0.44183	0.22400	0.33785
1-tr3-MCC6	312	112.208	598.15	29.64600	0.46228	0.42129	0.18896	0.26758
1-ci4-MCC6	313	112.208	598.15	29.64600	0.46228	0.43182	0.23398	0.32016
1-tr4-MCC6	314	112.208	589.82	29.64600	0.44826	0.43189	0.23398	0.33748
1c3c5MCC6	315	126.236	607.90	26.50000	0.47050	0.48944	0.27400	0.27400
1c3t5MCC6	316	126.236	602.20	26.50000	0.47050	0.49015	0.33300	0.33300
Ecycyheptane	317	126.236	654.26	29.38500	0.47200	0.48309	0.24950	0.34729
Mcycocotane	318	126.236	658.15	30.29500	0.46726	0.47473	0.22698	0.37002
n-Pcycypentan	319	112.208	603.15	29.99100	0.42515	0.43959	0.33500	0.34698
i-Pcycypentan	320	112.208	600.93	29.99100	0.42166	0.43783	0.23995	0.33597
112-MCC6	321	126.236	622.87	27.76500	0.46884	0.48271	0.25479	0.33237
113-MCC6	322	126.236	612.04	26.95100	0.46884	0.49678	0.23180	0.35815
1tr2tr4-MCC6	323	126.236	613.71	26.75100	0.46805	0.50365	0.26190	0.37358
n-Bcycypentan	324	126.236	631.48	27.25400	0.48225	0.50202	0.30079	0.39072
i-Bcycypentan	325	126.236	625.65	27.35800	0.47830	0.50164	0.25769	0.38113
sec-BCC5	326	126.236	633.71	27.35800	0.47830	0.49252	0.26668	0.36414
tert-BCC5	327	126.236	622.04	27.76500	0.47437	0.49050	0.25679	0.35148
1Mci2n-PCC5	328	126.236	623.43	27.40600	0.47751	0.49186	0.31760	0.36583
1Mtr2n-PCC5	329	126.236	616.48	26.95100	0.47751	0.50151	0.29640	0.37964
1Mci3i-PCC5	330	126.236	609.26	26.64800	0.47358	0.49722	0.29949	0.37062
1Mtr3i-PCC5	331	126.236	609.26	26.64800	0.47358	0.49722	0.29949	0.37062
diCycloC5	332	138.252	612.53	25.35400	0.54750	0.61608	0.60128	0.60128
n-Bcycyhexane	333	140.268	667.04	31.50900	0.53408	0.56133	0.36199	0.42513
i-Bcycyhexane	334	140.268	658.71	31.20600	0.52969	0.56085	0.31900	0.41571
sec-BCC6	335	140.268	668.71	26.75100	0.52969	0.54746	0.26399	0.39436
tert-BCC6	336	140.268	659.26	26.69600	0.52618	0.54363	0.25200	0.38223

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
1-tr2-MCC5	365.02	754.76	11.52	1.41068e+004	-7.23898e+000	2.79808e-001	-6.82390e-005
1-ci3-MCC5	363.92	747.96	11.61	1.33262e+004	-4.69333e+000	2.79574e-001	-6.80308e-005
1-tr3-MCC5	364.87	751.95	11.56	1.38355e+004	-3.21176e+001	3.25605e-001	-8.85361e-005
1-ci2-ECC5	426.73	798.73	11.47	1.64469e+004	-1.18750e+001	3.61414e-001	-8.93506e-005
1-tr2-ECC5	420.70	784.97	11.61	1.49211e+004	-6.66816e+000	3.60972e-001	-8.88633e-005
11-Mcycyhexan	392.70	783.66	11.37	5.75155e+003	-2.95657e+001	3.07964e-001	4.28922e-005
1-M-1-ECC5	394.68	784.09	11.38	1.65529e+004	-1.29926e+001	3.20859e-001	-7.89603e-005
1M-ci2-ECC5	401.21	788.03	11.39	1.62836e+004	-1.28801e+001	3.20971e-001	-7.90859e-005
1M-tr2-ECC5	394.37	771.67	11.56	1.46439e+004	-7.26883e+000	3.20388e-001	-7.85530e-005
1M-ci3-ECC5	394.26	769.57	11.59	1.43332e+004	-6.32023e+000	3.20298e-001	-7.84857e-005
1M-tr3-ECC5	394.26	769.57	11.59	1.43332e+004	-6.32023e+000	3.20298e-001	-7.84857e-005
112-MCC5	386.88	775.48	11.43	1.62668e+004	-1.12980e+001	3.20522e-001	-7.86809e-005
113-MCC5	378.04	751.15	11.71	1.37219e+004	-2.50278e+000	3.19625e-001	-7.78573e-005
1ci2ci3-MCC5	396.15	781.92	11.43	1.60087e+004	-1.15235e+001	3.20768e-001	-7.88896e-005
1ci2tr3-MCC5	390.65	773.36	11.50	1.54126e+004	-9.16796e+000	3.20466e-001	-7.86102e-005
1tr2ci3-MCC5	383.56	756.38	11.69	1.37455e+004	-3.30867e+000	3.19793e-001	-7.80391e-005
1ci2ci4-MCC5	389.91	774.63	11.47	1.57147e+004	-9.98772e+000	3.20511e-001	-7.86529e-005
1ci2tr4-MCC5	389.89	766.64	11.59	1.44703e+004	-6.24303e+000	3.20196e-001	-7.83881e-005
1tr2ci4-MCC5	382.44	750.35	11.77	1.30049e+004	-8.10737e-001	3.19568e-001	-7.78293e-005
Ecyclohexane	404.94	790.68	11.38	1.61984e+004	-1.30270e+001	3.21083e-001	-7.91690e-005
1-ci2-MCC6	402.89	799.18	11.24	8.57056e+003	-5.08389e+001	3.77018e-001	-5.10497e-005
1-tr2-MCC6	396.58	778.47	11.48	3.75483e-006	-6.84761e+001	4.56129e-001	-1.78492e-004
1-ci3-MCC6	393.24	768.73	11.59	8.78913e+003	-5.41515e+001	3.97462e-001	-8.97985e-005
1-tr3-MCC6	397.61	787.59	11.36	8.20465e+003	-5.50155e+001	4.22631e-001	-1.53464e-004
1-ci4-MCC6	397.48	785.84	11.38	8.20465e+003	-5.50155e+001	4.22631e-001	-1.53464e-004
1-tr4-MCC6	392.51	765.39	11.64	5.86938e+003	-3.03298e+001	3.25381e-001	1.44436e-005
1c3c5MCC6	411.70	774.41	11.69	-2.35599e-006	-5.97291e+001	4.64514e-001	-1.47398e-004
1c3t5MCC6	413.70	783.11	11.57	-6.95225e-006	-6.12346e+001	4.73549e-001	-1.64661e-004
Ecycyheptane	436.48	816.27	11.30	1.80833e+004	-1.78372e+001	3.62209e-001	-8.99477e-005
Mcycocotane	435.15	837.08	11.01	2.18199e+004	-2.88449e+001	3.62966e-001	-9.06231e-005
n-Pcycypentan	404.11	779.33	11.54	1.45377e+004	-8.00153e+000	3.20679e-001	-7.88066e-005
i-Pcycypentan	399.58	779.33	11.50	1.51391e+004	-9.31853e+000	3.20679e-001	-7.88066e-005
112-MCC6	418.37	802.82	11.33	1.83610e+004	-1.66000e+001	3.61704e-001	-8.94920e-005
113-MCC6	409.79	781.49	11.56	1.58969e+004	-8.29825e+000	3.60846e-001	-8.87371e-005
1tr2tr4-MCC6	414.39	774.63	11.71	1.40637e+004	-3.30232e+000	3.60581e-001	-8.84859e-005
n-Bcycypentan	429.77	787.15	11.66	1.40463e+004	-5.02292e+000	3.61086e-001	-8.89416e-005
i-Bcycypentan	421.12	783.66	11.64	1.46510e+004	-5.86655e+000	3.60947e-001	-8.88166e-005
sec-BCC5	427.52	797.38	11.49	1.61014e+004	-1.09357e+001	3.61477e-001	-8.93038e-005
tert-BCC5	418.02	793.79	11.46	1.68361e+004	-1.20554e+001	3.61351e-001	-8.91777e-005
1Mci2n-PCC5	425.75	795.13	11.51	1.59651e+004	-1.03309e+001	3.61401e-001	-8.92244e-005
1Mtr2n-PCC5	419.54	780.19	11.67	1.42835e+004	-4.57416e+000	3.60781e-001	-8.86904e-005
1Mci3i-PCC5	415.37	782.36	11.60	1.52417e+004	-6.98148e+000	3.60896e-001	-8.87699e-005
1Mtr3i-PCC5	415.37	782.36	11.60	1.52417e+004	-6.98148e+000	3.60896e-001	-8.87699e-005
diCycloC5	445.74	736.64	12.61	-2.03530e-004	-9.12018e+001	6.88998e-001	-4.52063e-004
n-Bcycyhexane	454.13	801.45	11.67	1.46664e+004	-5.69052e+000	4.01854e-001	-9.93863e-005
i-Bcycyhexane	444.44	797.38	11.64	1.53243e+004	-6.51754e+000	4.01657e-001	-9.92305e-005
sec-BCC6	452.45	815.33	11.45	1.74634e+004	-1.39731e+001	4.02289e-001	-9.99109e-005
tert-BCC6	444.72	815.33	11.39	1.86416e+004	-1.65090e+001	4.02289e-001	-9.99109e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
1-tr2-MCC5	-2.57874e-021	4.36240e-025	1.00000e+000	0.02813	-0.25916	HC	-4276090
1-ci3-MCC5	-1.04571e-021	2.67693e-025	1.00000e+000	0.03491	-0.24210	HC	
1-tr3-MCC5	-7.59035e-009	6.96468e-012	1.00000e+000	0.03495	-0.24086	HC	-4279000
1-ci2-ECC5	-2.16671e-021	6.11836e-025	1.00000e+000	-0.15749	-0.42879	HC	-163880
1-tr2-ECC5	1.78819e-021	-3.18665e-025	1.00000e+000	-0.15207	-0.41707	HC	-163880
11-Mcycyhexan	-1.15581e-007	3.50657e-011	1.00000e+000	-0.79198	-1.52617	HC	
1-M-1-ECC5	7.07724e-022	-1.58622e-025	1.00000e+000	-0.04417	-0.34874	HC	
1M-ci2-ECC5	-2.87731e-021	6.23156e-025	1.00000e+000	-0.04098	-0.35745	HC	-163880
1M-tr2-ECC5	-3.71265e-021	1.12168e-024	1.00000e+000	-0.06253	-0.33504	HC	-163880
1M-ci3-ECC5	1.39224e-022	-6.79807e-026	1.00000e+000	-0.03530	-0.34832	HC	-163880
1M-tr3-ECC5	1.39224e-022	-6.79807e-026	1.00000e+000	-0.02990	-0.34305	HC	-163880
112-MCC5	-4.17673e-022	5.32515e-025	1.00000e+000	-0.03306	-0.34435	HC	-163880
113-MCC5	3.14415e-021	-5.43845e-025	1.00000e+000	-0.01343	-0.31538	HC	
1ci2ci3-MCC5	5.80102e-022	2.60593e-025	1.00000e+000	-0.02735	-0.35194	HC	-163880
1ci2tr3-MCC5	-4.29275e-022	2.15272e-025	1.00000e+000	-0.02217	-0.34455	HC	
1tr2ci3-MCC5	3.07454e-021	-5.32515e-025	1.00000e+000	0.02246	-0.23138	HC	-163880
1ci2ci4-MCC5	2.86570e-021	-7.13797e-025	1.00000e+000	-0.02104	-0.34204	HC	-163880
1ci2tr4-MCC5	-3.08614e-021	1.47292e-025	1.00000e+000	-0.01613	-0.33544	HC	-163880
1tr2ci4-MCC5	3.29498e-021	-1.09902e-024	1.00000e+000	0.09655	-0.19562	HC	-163880
Ecyclohexane	1.16020e-022	-9.06409e-026	1.00000e+000	-0.00236	-0.32354	HC	-4913240
1-ci2-MCC6	-6.01262e-008	2.30101e-011	1.00000e+000	-0.08790	-0.52201	HC	
1-tr2-MCC6	2.95232e-008	-2.07357e-020	1.00000e+000	-0.04608	-0.39408	HC	
1-ci3-MCC6	-2.92466e-008	1.44688e-011	1.00000e+000	-0.03368	-0.42427	HC	
1-tr3-MCC6	2.46629e-008	-9.04852e-013	1.00000e+000	-0.04568	-0.29484	HC	
1-ci4-MCC6	2.46629e-008	-9.04852e-013	1.00000e+000	-0.08964	-0.46524	HC	
1-tr4-MCC6	-9.82814e-008	3.11900e-011	1.00000e+000	0.10813	-0.25088	HC	
1c3c5MCC6	1.35928e-008	5.49483e-020	1.00000e+000	0.04085	-0.23989	HC	
1c3t5MCC6	2.05414e-008	1.57646e-019	1.00000e+000	0.04961	-0.24972	HC	
Ecycyheptane	7.96202e-022	3.18665e-025	1.00000e+000	-0.03384	-0.35589	HC	-163880
Mcycocotane	3.71996e-021	-2.54932e-025	1.00000e+000	-0.03081	-0.33572	HC	
n-Pcycypentan	4.24635e-021	-3.73894e-025	1.00000e+000	0.04409	-0.23077	HC	-4936950
i-Pcycypentan	6.33471e-021	-1.24631e-024	1.00000e+000	0.06935	-0.21565	HC	
112-MCC6	1.54020e-021	-8.28528e-025	1.00000e+000	-0.00709	-0.23522	HC	
113-MCC6	-3.26312e-021	8.66767e-025	1.00000e+000	-0.04225	-0.39836	HC	
1tr2tr4-MCC6	2.50608e-021	-5.48103e-025	1.00000e+000	-0.03617	-0.40204	HC	-163880
n-Bcycypentan	1.13557e-021	-5.09863e-026	1.00000e+000	-0.07229	-0.40147	HC	-5503700
i-Bcycypentan	3.40670e-021	-1.07071e-024	1.00000e+000	-0.10683	-0.43463	HC	
sec-BCC5	-1.56630e-022	4.07891e-025	1.00000e+000	-0.09730	-0.42469	HC	
tert-BCC5	-2.33640e-021	3.56904e-025	1.00000e+000	-0.10378	-0.42993	HC	-163880
1Mci2n-PCC5	3.13260e-022	-1.91199e-025	1.00000e+000	-0.12026	-0.47576	HC	
1Mtr2n-PCC5	2.04924e-021	1.52959e-025	1.00000e+000	-0.09182	-0.43687	HC	
1Mci3i-PCC5	9.39780e-022	-6.75569e-025	1.00000e+000	-0.07946	-0.43046	HC	-163880
1Mtr3i-PCC5	9.39780e-022	-6.75569e-025	1.00000e+000	-0.07946	-0.43046	HC	-163880
diCycloC5	1.35299e-007	2.51279e-018	1.00000e+000	0.42342	0.34465	HC	
n-Bcycyhexane	-1.04424e-021	-2.26615e-025	1.00000e+000	-0.12199	-0.44312	HC	-6143100
i-Bcycyhexane	3.21975e-021	-1.21806e-024	1.00000e+000	-0.08816	-0.40834	HC	
sec-BCC6	2.63961e-021	-7.64826e-025	1.00000e+000	-0.03976	-0.38424	HC	
tert-BCC6	-8.12189e-022	7.08173e-026	1.00000e+000	-0.02314	-0.36050	HC	

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Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
Pent-CC6	337	154.300	674.00	23.30000	0.58450	0.61298	0.41300	0.41300
n-Hex-CC5	338	154.296	660.10	21.30000	0.64107	0.62561	0.47600	0.47600
Phenyl-CC6	339	160.259	744.00	28.80000	0.55510	0.55043	0.37850	0.37850
1-CC6-Octane	340	196.380	723.60	18.00000	0.75250	0.81289	0.53800	0.53800
n-Pcyhexane	341	126.236	639.26	28.06800	0.47672	0.48120	0.25799	0.26539
i-Pcyhexane	342	126.236	639.82	28.37100	0.47279	0.48701	0.23700	0.34632
1M-4i-PCC6	343	140.268	654.26	25.58600	0.52530	0.55584	0.26370	0.40806
Propadiene	344	40.065	393.15	54.71500	0.16200	0.16550	0.15960	0.14300
Cyclobutene	345	54.090	446.30	52.70000	0.19550	0.20353	0.18900	0.18900
2E1C4=	346	84.160	510.40	32.70000	0.35350	0.34274	0.26700	0.26700
3M1C5=	347	84.160	495.30	32.70000	0.34650	0.34917	0.26200	0.26200
Cyclopentene	348	68.118	507.00	48.02000	0.24500	0.24305	0.19586	0.19586
cis2-Pentene	349	70.135	475.93	36.54100	0.30206	0.28749	0.24060	0.24255
tr2-Pentene	350	70.135	475.37	36.54100	0.30206	0.29289	0.23725	0.23984
12Pentadiene	351	68.119	503.15	40.73400	0.27595	0.26919	0.17294	0.17599
1-ci3-C5==	352	68.119	498.70	40.12600	0.27636	0.26910	0.18690	0.18490
1-tr3-C5==	353	68.119	496.48	39.92100	0.27636	0.27417	0.17497	0.18298
23Pentadiene	354	68.120	505.80	41.40000	0.27550	0.27001	0.20400	0.20400
14Pentadiene	355	68.119	477.59	37.89300	0.27636	0.27671	0.10400	0.18919
2M1C5=	356	84.160	506.50	32.70000	0.35350	0.34645	0.26700	0.26700
1-Hexene	357	84.162	502.00	31.71400	0.34999	0.35089	0.28499	0.28499
cis2-hexene	358	84.162	517.59	32.82600	0.35091	0.34470	0.25600	0.25090
tr2-Hexene	359	84.162	516.48	32.68800	0.35091	0.34909	0.24199	0.25319
cis3-Hexene	360	84.162	517.04	32.82600	0.35091	0.34650	0.22495	0.23180
tr3-Hexene	361	84.162	517.59	32.82600	0.35091	0.34729	0.22698	0.21525
15-Hexadiene	362	82.146	520.93	34.45300	0.33327	0.33059	0.15997	0.24435
1-Heptene	363	98.189	537.20	28.37100	0.43999	0.41130	0.35800	0.36390
1-Octene	364	112.208	566.60	26.24300	0.46399	0.47099	0.38600	0.38760
cis2-Octene	365	112.208	581.48	27.76500	0.46437	0.47040	0.34150	0.38398
tr2-Octene	366	112.208	580.37	27.66100	0.46437	0.46740	0.34999	0.34310
tr3-Octene	367	112.208	578.15	27.46100	0.46437	0.47479	0.33599	0.37961
cis4-Octene	368	112.208	577.59	27.35800	0.46437	0.47062	0.33070	0.37828
tr4-Octene	369	112.208	577.59	27.35800	0.46437	0.47514	0.32730	0.37775
26-Octadiene	370	110.194	617.00	28.67500	0.47461	0.45407	0.12347	0.35166
1-Nonene	371	126.236	592.04	23.44100	0.58310	0.53329	0.43000	0.43270
1-Decene	372	140.246	614.82	22.06300	0.64780	0.60130	0.49099	0.49750
2M-1-butene	373	70.135	465.37	34.47400	0.28999	0.28870	0.23194	0.23544
3M-1-butene	374	70.135	450.37	35.16300	0.30206	0.29398	0.20900	0.22660
2M-2-butene	375	70.135	470.37	34.47400	0.31957	0.28830	0.28499	0.28518
2M-2-pentene	376	84.162	517.59	32.82600	0.35091	0.34713	0.27213	0.27213
4Mci2pentene	377	84.160	490.00	30.30000	0.36000	0.34911	0.29000	0.29000
4Mtr2pentene	378	84.160	492.00	30.30000	0.36000	0.35026	0.29000	0.29000
3Mci2pentene	379	84.162	517.59	32.82600	0.35091	0.34323	0.26618	0.26618
3Mtr2pentene	380	84.162	521.48	32.92900	0.35091	0.34240	0.26901	0.26901
23M-1-butene	381	84.162	500.93	32.42600	0.34303	0.34250	0.25001	0.22416
33M-1-butene	382	84.162	490.37	31.50900	0.34303	0.34659	0.13786	0.14990
23M-2-butene	383	84.162	524.26	33.63900	0.35091	0.33790	0.26815	0.26815
4M-1-pentene	384	84.161	496.00	32.20000	0.34498	0.34935	0.23890	0.23890

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
Pent-CC6	476.90	806.81	11.78	-5.17533e-006	-6.54800e+001	5.90449e-001	-2.27929e-004
n-Hex-CC5	476.30	800.09	11.87	-1.83240e-005	-5.83191e+001	5.63995e-001	-2.17863e-004
Phenyl-CC6	513.27	946.26	10.29	-1.91580e-005	-9.55600e+001	5.69336e-001	-2.29326e-004
1-CC6-Octane	536.80	816.59	12.11	-4.94235e-006	-6.64629e+001	7.27547e-001	-2.76073e-004
n-Pcyhexane	429.89	796.03	11.53	1.55384e+004	-9.51804e+000	3.61438e-001	-8.92558e-005
i-Pcyhexane	427.93	804.65	11.39	1.72969e+004	-1.45294e+001	3.61780e-001	-8.95538e-005
1M-4i-PCC6	443.87	801.45	11.58	1.61659e+004	-8.98808e+000	4.01854e-001	-9.93863e-005
Propadiene	238.70	655.59	11.51	5.54898e+002	2.15148e+001	6.63072e-002	-7.31163e-007
Cyclobutene	275.80	710.35	11.15	-2.67126e-006	-2.76860e+001	1.95005e-001	-8.80428e-005
2E1C4=	337.80	694.06	12.21	-2.54930e-006	-1.32819e+001	3.00994e-001	-1.33903e-004
3M1C5=	327.30	672.35	12.47	-4.06975e-006	3.27600e+000	2.84280e-001	-1.24006e-004
Cyclopentene	317.38	776.52	10.69	0.00000e+000	1.13167e+001	9.40191e-002	1.00276e-004
cis2-Pentene	310.08	659.58	12.48	0.00000e+000	3.84978e-001	1.89315e-001	-3.36779e-005
tr2-Pentene	309.49	652.26	12.62	0.00000e+000	1.84799e+001	1.62004e-001	-1.21969e-005
12Pentadiene	317.99	696.33	11.92	9.12795e+003	2.69411e+000	1.92626e-001	-4.60107e-005
1-ci3-C5==	317.20	694.96	11.94	9.12250e+003	2.93579e+000	1.92572e-001	-4.59767e-005
1-tr3-C5==	315.17	679.90	12.18	8.41610e+003	6.96783e+000	1.92164e-001	-4.55944e-005
23Pentadiene	321.40	699.80	11.91	3.18400e-008	1.24979e+001	1.73389e-001	-5.83731e-005
14Pentadiene	299.11	664.54	12.24	9.19607e+003	8.11979e+000	1.91707e-001	-4.51885e-005
2M1C5=	335.30	684.58	12.35	-4.67532e-006	1.85200e+000	2.65830e-001	-9.95764e-005
1-Hexene	336.60	671.65	12.60	1.27542e-006	-1.74600e+000	2.65448e-001	-9.67652e-005
cis2-hexene	342.03	690.54	12.32	8.22782e+003	1.12777e+001	2.37800e-001	-5.66692e-005
tr2-Hexene	341.03	681.21	12.48	7.76914e+003	1.42989e+001	2.37463e-001	-5.63755e-005
cis3-Hexene	339.59	683.19	12.42	8.01633e+003	1.32974e+001	2.37539e-001	-5.64387e-005
tr3-Hexene	340.23	680.55	12.48	7.81265e+003	1.43496e+001	2.37446e-001	-5.63545e-005
15-Hexadiene	332.60	695.64	12.12	9.35637e+003	7.09203e+000	2.32266e-001	-5.54643e-005
1-Heptene	366.80	695.61	12.52	1.90603e-006	-3.30298e+000	3.14850e-001	-1.17066e-004
1-Octene	394.40	713.57	12.50	7.12723e+003	-6.05452e+000	3.67089e-001	-1.43413e-004
cis2-Octene	398.80	727.16	12.31	7.83930e+003	1.43735e+001	3.18648e-001	-7.69922e-005
tr2-Octene	398.15	723.07	12.38	7.43636e+003	1.60343e+001	3.18480e-001	-7.68385e-005
tr3-Octene	396.43	718.29	12.44	7.09974e+003	1.76836e+001	3.18278e-001	-7.66567e-005
cis4-Octene	395.70	724.18	12.33	7.84446e+003	1.49010e+001	3.18502e-001	-7.68800e-005
tr4-Octene	395.41	717.19	12.45	7.09379e+003	1.78972e+001	3.18232e-001	-7.66141e-005
26-Octadiene	397.65	746.78	11.98	1.03386e+004	5.11090e+000	3.13711e-001	-7.63088e-005
1-Nonene	420.04	732.06	12.44	6.83543e+003	1.97673e+001	3.58700e-001	-8.68208e-005
1-Decene	443.75	743.63	12.48	6.24753e+003	2.27337e+001	3.99111e-001	-9.69782e-005
2M-1-butene	304.30	654.38	12.50	0.00000e+000	1.05553e+001	1.99850e-001	1.16754e-004
3M-1-butene	293.20	631.27	12.80	0.00000e+000	2.17278e+001	1.94470e-001	-1.20282e-004
2M-2-butene	311.70	666.11	12.38	0.00000e+000	1.17966e+001	1.75442e-001	-6.69955e-005
2M-2-pentene	340.45	689.86	12.31	8.34203e+003	1.11674e+001	2.37757e-001	-5.66482e-005
4Mci2pentene	329.60	673.99	12.47	-5.26216e-006	-1.02079e+001	2.88004e-001	-1.19920e-004
4Mtr2pentene	331.70	673.52	12.50	1.00525e-006	1.26060e+001	2.57589e-001	-1.00212e-004
3Mci2pentene	340.84	696.67	12.20	8.79071e+003	8.86141e+000	2.38010e-001	-5.68569e-005
3Mtr2pentene	343.58	700.82	12.16	8.83448e+003	8.03746e+000	2.38136e-001	-5.69832e-005
23M-1-butene	328.76	681.54	12.32	9.02047e+003	1.13619e+001	2.37463e-001	-5.63865e-005
33M-1-butene	314.39	657.12	12.59	9.58166e+003	1.64957e+001	2.36579e-001	-5.55793e-005
23M-2-butene	346.35	711.41	12.01	9.46737e+003	4.91799e+000	2.38498e-001	-5.72971e-005
4M-1-pentene	327.01	668.66	12.53	0.00000e+000	3.00344e+001	1.57786e-001	4.66176e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
Pent-CC6	3.64495e-008	1.16110e-019	1.00000e+000	-0.07052	-0.46232	HC	
n-Hex-CC5	3.68243e-008	4.27132e-019	1.00000e+000	-0.06677	-0.48965	HC	
Phenyl-CC6	3.78432e-008	2.94327e-013	1.00000e+000	-0.04156	-0.50081	HC	-6574800
1-CC6-Octane	4.28843e-008	1.14860e-019	1.00000e+000	-0.09734	-0.61591	HC	
n-Pcyhexane	-4.30732e-022	1.78452e-025	1.00000e+000	-0.03581	-0.36265	HC	-5527350
i-Pcyhexane	-1.60546e-021	2.54932e-026	1.00000e+000	-0.03210	-0.38295	HC	-5480000
1M-4i-PCC6	1.16027e-021	-1.41635e-025	1.00000e+000	-0.01522	-0.36787	HC	-163880
Propadiene	-1.33414e-008	3.87181e-012	1.00000e+000	0.17294	0.10486	HC	-2528570
Cyclobutene	1.78373e-008	6.25616e-020	1.00000e+000	0.06578	0.07027	HC	
2E1C4=	2.84572e-008	5.93051e-020	1.00000e+000	0.10935	-0.08606	HC	
3M1C5=	2.56897e-008	9.47734e-020	1.00000e+000	0.11348	0.00508	HC	
Cyclopentene	-1.05474e-007	2.85108e-011	1.00000e+000	0.01492	-0.19492	HC	-2939300
cis2-Pentene	-1.62395e-008	6.61714e-012	1.00000e+000	-0.02034	-0.11105	HC	-3150950
tr2-Pentene	-2.50189e-008	8.08208e-012	1.00000e+000	-0.22291	-0.29504	HC	-3146440
12Pentadiene	-1.49319e-021	3.50791e-025	1.00000e+000	-0.07035	-0.12081	HC	
1-ci3-C5==	6.76161e-022	1.10052e-025	1.00000e+000	-0.07390	-0.14598	HC	
1-tr3-C5==	-1.42276e-021	1.37565e-025	1.00000e+000	-0.06627	-0.07945	HC	
23Pentadiene	8.35029e-009	-1.81059e-022	1.00000e+000	0.08693	-0.13206	HC	
14Pentadiene	7.18421e-022	6.87826e-026	1.00000e+000	-0.08141	-0.12522	HC	
2M1C5=	1.63947e-008	1.10925e-019	1.00000e+000	0.12302	-0.06251	HC	
1-Hexene	1.51346e-008	-6.76680e-021	1.00000e+000	-0.02974	-0.19199	HC	-3739400
cis2-hexene	-1.11387e-021	3.39927e-025	1.00000e+000	-0.07427	-0.24187	HC	
tr2-Hexene	2.22775e-021	-2.63444e-025	1.00000e+000	-0.06450	-0.22168	HC	
cis3-Hexene	-8.87618e-022	2.03956e-025	1.00000e+000	-0.06849	-0.22197	HC	
tr3-Hexene	-1.00945e-021	1.86960e-025	1.00000e+000	-0.06507	-0.21536	HC	
15-Hexadiene	2.53111e-021	-6.05504e-025	1.00000e+000	0.09668	-0.13222	HC	
1-Heptene	1.90171e-008	-1.05260e-020	1.00000e+000	0.05632	-0.11460	HC	-4348900
1-Octene	2.82321e-008	-1.57087e-012	1.00000e+000	0.07963	-0.15263	HC	-4960600
cis2-Octene	3.66624e-021	-9.17739e-025	1.00000e+000	0.03549	-0.18208	HC	
tr2-Octene	-3.38779e-021	6.57147e-025	1.00000e+000	0.03743	-0.17303	HC	
tr3-Octene	8.81755e-022	-4.07884e-025	1.00000e+000	0.03613	-0.17136	HC	
cis4-Octene	2.08837e-022	4.98525e-025	1.00000e+000	0.02785	-0.21231	HC	
tr4-Octene	9.28163e-022	-4.30544e-025	1.00000e+000	0.03041	-0.18320	HC	
26-Octadiene	-1.45841e-021	1.11268e-026	1.00000e+000	-0.00971	-0.20351	HC	-163880
1-Nonene	-1.56630e-022	-3.31411e-025	1.00000e+000	0.05325	-0.21401	HC	-5568400
1-Decene	1.65313e-021	-2.26580e-025	1.00000e+000	0.04989	-0.25507	HC	-6178100
2M-1-butene	2.68411e-008	-5.66546e-026	1.00000e+000	-0.07136	-0.29023	HC	-3141870
3M-1-butene	3.24842e-008	8.49819e-026	1.00000e+000	-0.01938	-0.28233	HC	-3149250
2M-2-butene	4.70351e-009	-1.13309e-025	1.00000e+000	-0.03645	-0.16117	HC	-3135640
2M-2-pentene	-1.63600e-021	5.43884e-025	1.00000e+000	-0.07594	-0.23894	HC	-3713500
4Mci2pentene	2.32492e-008	1.23775e-019	1.00000e+000	0.12776	-0.14996	HC	
4Mtr2pentene	1.83215e-008	-2.38162e-020	1.00000e+000	0.12766	-0.15220	HC	
3Mci2pentene	8.70214e-023	6.79854e-026	1.00000e+000	-0.08395	-0.25683	HC	
3Mtr2pentene	5.04724e-022	-2.63444e-025	1.00000e+000	-0.09019	-0.26539	HC	
23M-1-butene	-1.74043e-023	9.34800e-026	1.00000e+000	-0.03877	-0.36599	HC	
33M-1-butene	-7.83192e-022	6.54360e-025	1.00000e+000	-0.04860	-0.33423	HC	
23M-2-butene	-1.74043e-021	2.71942e-025	1.00000e+000	-0.01474	-0.41271	HC	
4M-1-pentene	-7.26188e-008	2.02360e-011	1.00000e+000	-0.04485	-0.24672	HC	-3732000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
44M1-pentene	385	98.189	526.48	28.57100	0.40020	0.41181	0.18174	0.28839
233M1-butene	386	98.189	532.59	28.97900	0.40020	0.39140	0.19268	0.19810
23M2-pentene	387	98.189	556.48	30.29500	0.40755	0.39609	0.25330	0.31101
2M-1-heptene	388	112.208	573.15	27.15100	0.46437	0.46909	0.32530	0.37152
23M-2-hexene	389	112.208	577.59	27.35800	0.46437	0.45100	0.32220	0.32559
233M1pentene	390	112.208	569.26	26.86100	0.45666	0.45350	0.23350	0.32771
244M1pentene	391	112.208	559.82	26.44800	0.45666	0.45100	0.22258	0.22066
244M2pentene	392	112.208	563.15	26.54400	0.45666	0.44929	0.23620	0.23630
23M2-heptene	393	126.236	600.93	24.92400	0.52086	0.53232	0.36379	0.42008
3M-12-C4==	394	68.119	496.48	39.92100	0.27594	0.27200	0.15340	0.20790
4M-13-C5==	395	82.146	538.15	35.46600	0.33327	0.32802	0.22300	0.27169
23M-13-C4==	396	82.146	527.04	35.36300	0.33327	0.32041	0.21209	0.24670
2M-15-C6==	397	96.173	553.15	32.52100	0.39019	0.38978	0.20735	0.29501
2M-24-C6==	398	96.173	582.04	34.14300	0.39019	0.38699	0.26690	0.33206
24-M-13-C5==	399	96.173	489.26	29.38500	0.39019	0.36419	0.79531	0.29850
3-M-15-C7==	400	110.194	583.15	27.96400	0.44297	0.45328	0.18614	0.33381
25-M-15-C6==	401	110.194	583.71	27.96400	0.46086	0.44642	0.21340	0.33618
25-M-24-C6==	402	110.194	602.04	29.17900	0.45535	0.44203	0.30649	0.36412
2-E-1-C6=	403	112.208	572.00	30.60000	0.39899	0.46531	0.37990	0.37990
2M3E-15-C6==	404	124.222	622.04	26.44800	0.50010	0.50441	0.23995	0.38005
37-M-16-C8==	405	138.253	640.37	25.43400	0.55659	0.57687	0.25960	0.42620
13-CC5==	406	66.102	507.00	51.50000	0.22495	0.22649	0.18330	0.17396
DicycloC5==	407	132.205	650.00	30.59900	0.44499	0.42533	0.28510	0.35155
1357CyOcttrn	408	104.160	642.60	41.40000	0.34550	0.34081	0.24400	0.24400
1-Undecene	409	154.296	637.00	19.80000	0.53947	0.68587	0.54316	0.54316
1-Dodecene	410	168.324	657.00	18.50000	0.59548	0.73353	0.58363	0.56379
1-Tridecene	411	182.350	674.00	17.00000	0.65148	0.80786	0.62734	0.62734
1-Tetradecen	412	196.378	689.00	15.50000	0.70749	0.88200	0.67522	0.67522
1-Pentadecen	413	210.404	704.00	14.50000	0.76349	0.95497	0.71188	0.71188
1-Hexadecene	414	224.432	717.00	13.30000	0.81950	1.02918	0.75022	0.75022
1-Heptadecen	415	238.440	730.50	13.34000	0.87550	1.12249	0.82999	0.82999
1-Octadecene	416	252.485	742.90	12.45000	0.93150	1.19676	0.85518	0.85518
1-Nonadecene	417	266.489	754.80	11.65000	0.98750	1.27980	0.87373	0.87373
1-Eicosene	418	280.519	767.74	10.43200	1.13650	1.34089	0.88060	0.88510
1-C21=	419	294.549	776.70	10.77600	1.24047	1.42323	0.90480	0.88709
1-C22=	420	308.590	786.05	10.25200	1.29724	1.48599	0.92440	0.88160
1-C23=	421	322.600	794.89	9.77600	1.35280	1.54909	0.93970	0.86677
1-C24=	422	336.618	803.32	9.33300	1.40796	1.60491	0.95080	0.84438
1-C25=	423	350.648	811.56	8.90800	1.46421	1.65479	0.95670	0.81203
1-C26=	424	364.678	818.96	8.54200	1.51609	1.69859	0.95890	0.77100
1-C27=	425	378.700	826.29	8.18800	1.56921	1.73678	0.95580	0.72188
1-C28=	426	392.730	832.83	7.88700	1.61746	1.77072	0.94900	0.66799
1-C29=	427	406.750	840.03	7.55400	1.67293	1.79893	0.93670	0.60483
1-C30=	428	420.778	845.60	7.30900	1.71642	1.82221	0.92110	0.53570
n-PBenzene	429	120.194	638.38	31.99800	0.43999	0.42982	0.34439	0.34319
14-EBenzene	430	134.222	657.96	28.02600	0.47999	0.49318	0.40437	0.40437
1M2-EBenzene	431	120.194	650.93	30.39900	0.45763	0.41547	0.29398	0.26600
1M3-EBenzene	432	120.194	637.04	28.37100	0.48765	0.43342	0.36000	0.37900

User Name : Undefined
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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
44M1-pentene	345.66	685.51	12.45	8.81794e+003	1.61521e+001	2.77227e-001	-6.59306e-005
233M1-butene	351.03	707.85	12.12	1.01006e+004	8.49481e+000	2.78110e-001	-6.67249e-005
23M2-pentene	370.55	730.93	11.95	1.03540e+004	4.16665e+000	2.78955e-001	-6.74947e-005
2M-1-heptene	392.43	723.44	12.31	8.13721e+003	1.43626e+001	3.18491e-001	-7.68519e-005
23M-2-hexene	394.93	744.02	12.00	1.04833e+004	5.71104e+000	3.19333e-001	-7.76060e-005
233M1pentene	381.46	738.19	11.95	1.13888e+004	4.58032e+000	3.19097e-001	-7.73961e-005
244M1pentene	374.59	717.92	12.21	9.64450e+003	1.19612e+001	3.18256e-001	-7.66421e-005
244M2pentene	378.06	724.92	12.13	1.00655e+004	9.74100e+000	3.18445e-001	-7.69080e-005
23M2-heptene	418.26	737.42	12.34	7.76175e+003	1.64107e+001	3.58952e-001	-8.70405e-005
3M-12-C4==	313.98	690.20	11.98	9.11705e+003	3.66998e+000	1.92457e-001	-4.58581e-005
4M-13-C5==	350.15	722.70	11.86	9.91661e+003	1.73163e+000	2.33136e-001	-5.62413e-005
23M-13-C4==	341.92	729.79	11.66	1.15488e+004	-2.75795e+000	2.33359e-001	-5.64353e-005
2M-15-C6==	361.26	723.07	11.98	1.03145e+004	4.84960e+000	2.72966e-001	-6.58576e-005
2M-24-C6==	384.65	747.57	11.83	1.05453e+004	9.76516e-001	2.73803e-001	-6.66231e-005
24-M-13-C5==	361.25	739.35	11.72	1.16561e+004	-4.29372e-001	2.73543e-001	-6.63721e-005
3-M-15-C7==	384.15	732.06	12.08	1.00339e+004	8.03488e+000	3.13116e-001	-7.57877e-005
25-M-15-C6==	387.48	744.02	11.92	1.12200e+004	3.54339e+000	3.13601e-001	-7.62130e-005
25-M-24-C6==	407.65	764.15	11.80	1.15704e+004	6.13428e-003	3.14371e-001	-7.68984e-005
2-E-1-C6=	393.15	731.30	12.19	1.46915e+006	-3.52210e+001	4.47978e-001	-2.39333e-004
2M3E-15-C6==	418.15	765.39	11.89	1.18192e+004	2.53996e+000	3.54443e-001	-8.67338e-005
37-M-16-C8==	434.26	760.45	12.11	1.00095e+004	1.06691e+001	3.94227e-001	-9.63245e-005
13-CC5==	314.65	804.47	10.29	0.00000e+000	-2.51272e+001	2.06028e-001	-8.12243e-005
DicycloC5==	443.00	970.27	9.56	3.30827e-005	-1.49269e+002	6.89112e-001	-4.68049e-004
1357CyOcttrn	413.20	924.48	9.80	-3.95320e-006	-4.16858e+001	3.42333e-001	-1.66620e-004
1-Undecene	465.80	753.40	12.52	3.56172e-006	2.78273e+001	4.09409e-001	-6.88327e-005
1-Dodecene	486.50	762.20	12.55	1.09704e-006	2.69184e+001	4.56907e-001	-8.69659e-005
1-Tridecene	505.90	769.10	12.60	7.30596e-007	2.60068e+001	5.04397e-001	-1.05099e-004
1-Tetradecen	524.30	774.10	12.67	4.61585e-006	2.50969e+001	5.51899e-001	-1.23233e-004
1-Pentadecen	541.50	779.00	12.73	4.48861e-006	2.41902e+001	5.99399e-001	-1.41366e-004
1-Hexadecene	557.00	783.90	12.77	8.67903e-007	2.32821e+001	6.46896e-001	-1.59499e-004
1-Heptadecen	573.50	786.80	12.85	3.33141e-007	2.23739e+001	6.94397e-001	-1.77632e-004
1-Octadecene	587.00	789.80	12.90	2.07043e-006	2.14650e+001	7.41899e-001	-1.95766e-004
1-Nonadecene	601.70	788.80	13.02	2.78175e-006	2.05560e+001	7.89399e-001	-2.13899e-004
1-Eicosene	615.50	798.79	12.95	3.32634e-006	1.96470e+001	8.36898e-001	-2.32032e-004
1-C21=	628.20	793.01	13.14	4.19691e-006	1.87380e+001	8.84395e-001	-2.50165e-004
1-C22=	640.40	795.07	13.19	7.52562e-006	1.78631e+001	9.33682e-001	-2.68812e-004
1-C23=	652.00	797.04	13.23	6.40171e-006	1.69199e+001	9.79394e-001	-2.86432e-004
1-C24=	663.20	798.80	13.28	-2.98468e-006	1.60110e+001	1.02689e+000	-3.04565e-004
1-C25=	674.30	800.37	13.33	2.20680e-006	1.51019e+001	1.07440e+000	-3.22698e-004
1-C26=	684.30	801.84	13.37	1.05338e-005	1.41929e+001	1.12190e+000	-3.40832e-004
1-C27=	694.30	803.22	13.41	-7.06079e-007	1.32840e+001	1.16940e+000	-3.58965e-004
1-C28=	703.20	804.59	13.44	-1.92949e-006	1.23749e+001	1.21689e+000	-3.77098e-004
1-C29=	713.20	805.77	13.49	9.31254e-006	1.14660e+001	1.26439e+000	-3.95232e-004
1-C30=	720.90	806.85	13.52	5.82344e-006	1.05569e+001	1.31189e+000	-4.13364e-004
n-PBenzene	432.39	864.76	10.64	2.55351e+004	-4.16592e+001	3.46495e-001	-8.70933e-005
14-EBenzene	456.94	864.76	10.84	2.45626e+004	-3.82935e+001	3.86949e-001	-9.72581e-005
1M2-EBenzene	438.33	883.15	10.46	5.62278e+003	-2.22119e+001	3.65666e-001	-1.57031e-004
1M3-EBenzene	434.48	867.41	10.62	5.31859e+003	-1.85700e+001	3.29692e-001	-9.18542e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
44M1-pentene	-1.01525e-022	1.38804e-025	1.00000e+000	0.00193	-0.13729	HC	
233M1-butene	2.84270e-022	5.55215e-025	1.00000e+000	0.03837	-0.12204	HC	
23M2-pentene	1.13708e-021	-5.35386e-025	1.00000e+000	-0.00628	-0.18580	HC	
2M-1-heptene	1.02098e-021	-5.66506e-025	1.00000e+000	0.05736	-0.15861	HC	
23M-2-hexene	-2.64526e-021	3.51234e-025	1.00000e+000	0.04098	-0.18476	HC	
233M1pentene	1.46186e-021	-1.35961e-025	1.00000e+000	0.05308	-0.14722	HC	
244M1pentene	-2.32041e-021	-1.24631e-025	1.00000e+000	0.10726	-0.17881	HC	
244M2pentene	1.20661e-021	1.01971e-025	1.00000e+000	0.09620	-0.18161	HC	
23M2-heptene	2.84544e-021	-9.55993e-025	1.00000e+000	0.06227	-0.18941	HC	-163880
3M-12-C4==	-1.26780e-022	1.51322e-025	1.00000e+000	-0.11365	-0.18646	HC	
4M-13-C5==	-3.39746e-022	5.47442e-025	1.00000e+000	0.05522	-0.14119	HC	
23M-13-C4==	-1.86860e-021	-1.07830e-025	1.00000e+000	0.04593	-0.16234	HC	
2M-15-C6==	-1.01429e-021	1.06820e-025	1.00000e+000	0.04975	-0.14381	HC	
2M-24-C6==	-3.48040e-022	-4.85547e-026	1.00000e+000	0.01230	-0.20261	HC	-163880
24-M-13-C5==	1.54132e-021	-3.69016e-025	1.00000e+000	0.13865	-0.22111	HC	-163880
3-M-15-C7==	-1.09380e-021	2.11408e-025	1.00000e+000	0.05314	-0.16708	HC	-163880
25-M-15-C6==	-2.00531e-021	1.07930e-024	1.00000e+000	0.03761	-0.19222	HC	
25-M-24-C6==	-1.15077e-021	1.78028e-025	1.00000e+000	0.01913	-0.24210	HC	
2-E-1-C6=	8.11459e-008	-1.26923e-011	1.00000e+000	0.03205	-0.18806	HC	
2M3E-15-C6==	-2.58170e-021	8.52939e-025	1.00000e+000	0.01601	-0.24695	HC	
37-M-16-C8==	-3.80248e-021	2.37320e-025	1.00000e+000	-0.00696	-0.28211	HC	
13-CC5==	1.02159e-008	1.56713e-012	1.00000e+000	0.13725	0.02816	HC	
DicycloC5==	1.82145e-007	-2.96775e-011	1.00000e+000	0.16411	-0.19764	HC	-5540000
1357CyOcttrn	3.62347e-008	9.09657e-020	1.00000e+000	0.05609	-0.12372	HC	
1-Undecene	-1.72244e-008	-1.99846e-020	1.00000e+000	0.01524	-0.33542	HC	
1-Dodecene	-1.42499e-008	-6.36406e-021	1.00000e+000	0.06469	-0.34621	HC	
1-Tridecene	-1.12749e-008	-4.43857e-021	1.00000e+000	0.00183	-0.41251	HC	
1-Tetradecen	-8.29992e-009	-2.53218e-020	1.00000e+000	0.01745	-0.42458	HC	
1-Pentadecen	-5.32488e-009	-2.49482e-020	1.00000e+000	0.13300	-0.38574	HC	
1-Hexadecene	-2.34989e-009	-5.13959e-021	1.00000e+000	0.04184	-0.44609	HC	
1-Heptadecen	6.24987e-010	-8.91039e-022	1.00000e+000	0.14312	-0.40040	HC	
1-Octadecene	3.59988e-009	-1.10533e-020	1.00000e+000	0.06283	-0.44764	HC	
1-Nonadecene	6.57487e-009	-1.51151e-020	1.00000e+000	0.13255	-0.44240	HC	
1-Eicosene	9.54988e-009	-1.92039e-020	1.00000e+000	0.15679	-0.42392	HC	
1-C21=	1.25248e-008	-2.48907e-020	1.00000e+000	-0.01779	-0.83244	HC	
1-C22=	1.55295e-008	-3.92628e-020	1.00000e+000	-0.02089	-0.82371	HC	
1-C23=	1.84749e-008	-3.35720e-020	1.00000e+000	-0.02395	-0.80829	HC	
1-C24=	2.14498e-008	1.53008e-020	1.00000e+000	-0.02704	-0.78680	HC	
1-C25=	2.44248e-008	-1.17762e-020	1.00000e+000	-0.02997	-0.75787	HC	
1-C26=	2.73998e-008	-5.87794e-020	1.00000e+000	-0.03274	-0.72188	HC	
1-C27=	3.03749e-008	3.92599e-021	1.00000e+000	-0.03775	-0.68567	HC	
1-C28=	3.33498e-008	1.03594e-020	1.00000e+000	-0.03951	-0.63656	HC	
1-C29=	3.63247e-008	-5.06184e-020	1.00000e+000	-0.04126	-0.57757	HC	
1-C30=	3.92998e-008	-2.88453e-020	1.00000e+000	-0.04241	-0.51266	HC	
n-PBenzene	1.57833e-021	1.82047e-025	1.00000e+000	-0.06093	-0.31213	HC	-5002760
14-EBenzene	1.24904e-022	-3.79483e-025	1.00000e+000	0.00528	-0.30421	HC	
1M2-EBenzene	3.40637e-008	2.11765e-012	1.00000e+000	-0.10293	-0.36561	HC	-4996150
1M3-EBenzene	-1.30069e-008	9.97666e-012	1.00000e+000	-0.00448	-0.30963	HC	-4993050

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
1M4-EBenzene	433	120.194	640.37	29.38500	0.47264	0.43639	0.32199	0.38299
123-MBenzene	434	120.194	664.53	34.54300	0.43500	0.41830	0.36599	0.36419
124-MBenzene	435	120.194	649.10	32.32300	0.43000	0.42789	0.37599	0.37450
135-MBenzene	436	120.194	637.36	31.26800	0.43288	0.43369	0.39899	0.39739
n-BBenzene	437	134.222	660.54	28.86800	0.49680	0.49211	0.39300	0.39210
i-BBenzene	438	134.222	650.37	30.49900	0.47837	0.49439	0.37999	0.39210
sec-BBenzene	439	134.222	664.54	29.50900	0.47837	0.47780	0.28468	0.28169
tert-Bbenzen	440	134.222	659.82	29.64600	0.46077	0.47330	0.27755	0.27099
o-Cymene	441	134.222	669.82	28.95800	0.47837	0.47167	0.28878	0.28878
m-Cymene	442	134.222	666.21	29.38500	0.47837	0.47955	0.28854	0.28854
p-Cymene	443	134.222	650.00	27.30000	0.47837	0.48638	0.37299	0.34000
1234-M-BZ	444	134.220	695.10	28.30000	0.48750	0.47126	0.36800	0.36800
1235-M-BZ	445	134.210	662.20	28.77600	0.47391	0.55462	0.54100	0.54100
1245-M-BZ	446	134.222	675.37	29.64600	0.47999	0.48530	0.42500	0.42500
135-iP-BZ	447	204.360	692.87	18.37200	0.74950	0.79530	0.53140	0.53140
n-Pentyl-BZ	448	148.240	679.93	26.06200	0.55524	0.55571	0.43763	0.43763
n-Hexyl-BZ	449	162.274	697.50	23.80000	0.62000	0.63157	0.48000	0.54098
n-Heptyl-BZ	450	176.289	713.54	21.99400	0.66816	0.69160	0.54098	0.54098
n-Octyl-BZ	451	190.320	728.15	20.33900	0.72542	0.76064	0.59093	0.59093
n-Nonyl-BZ	452	204.339	740.93	18.96100	0.77587	0.83576	0.65235	0.65235
n-Decyl-BZ	453	218.369	752.00	17.85700	0.85000	0.90496	0.67500	0.67500
n-Undecyl-BZ	454	232.389	764.00	16.60000	0.91000	0.98045	0.72200	0.72200
n-Dodecyl-BZ	455	246.419	774.00	15.80000	0.98000	1.06013	0.77300	0.77300
n-TridecylBZ	456	260.450	784.00	15.00000	1.03998	1.14099	0.81600	0.81600
n-TtrdecylBZ	457	274.470	792.04	14.10000	1.11000	1.22645	0.86900	0.86900
n-Pentdec-BZ	458	288.500	800.37	13.44400	1.05541	1.33441	0.97196	0.97196
n-HexdecylBZ	459	302.519	808.15	12.89300	1.08711	1.43095	1.02987	1.02987
13-iP-BZ	460	162.274	684.00	24.50000	0.60000	0.59658	0.35870	0.35870
14-iP-BZ	461	162.274	689.00	24.50000	0.59798	0.60443	0.38999	0.38999
Ethynyl-BZ	462	102.126	655.40	44.00000	0.33750	0.33210	0.23900	0.23900
cis-C3=BZ	463	118.180	664.60	34.60000	0.41150	0.40285	0.31600	0.31600
trans-C3=BZ	464	118.180	664.60	34.60000	0.41150	0.40410	0.31600	0.31600
12-E-BZ	465	134.220	668.00	28.80000	0.50200	0.51446	0.33950	0.61337
13-E-BZ	466	134.220	663.60	29.30000	0.48750	0.48884	0.35900	0.35900
14-DiethylBZ	467	134.220	657.96	28.02600	0.49700	0.52140	0.40350	0.60467
124-E-BZ	468	162.274	684.50	23.30000	0.59950	0.60643	0.47900	0.47900
135-E-BZ	469	162.274	682.30	23.30000	0.59950	0.35368	0.47900	0.47900
1234-E-BZ	470	190.330	708.20	19.30000	0.71150	0.72358	0.56200	0.56200
1245-E-BZ	471	190.330	706.90	19.30000	0.71150	0.73040	0.56200	0.56200
Penta-M-BZ	472	148.250	719.00	24.90000	0.54350	0.52373	0.40700	0.40700
Penta-E-BZ	473	218.380	723.60	16.10000	0.82350	0.84703	0.63700	0.63700
ci1-PH-1-C3=	474	118.179	677.59	36.26600	0.40792	0.39651	0.23781	0.23781
tr1-PH-1-C3=	475	118.179	677.59	36.26600	0.40792	0.40735	0.32901	0.32901
1-M-NaphtIn	476	142.199	772.04	36.60000	0.52300	0.45100	0.34780	0.34780
2-M-NaphtIn	477	142.199	750.00	32.50000	0.50700	0.45794	0.34590	0.34590
BiPhenyl	478	154.210	789.26	38.47300	0.50155	0.51542	0.36590	0.54380
1BNaphthalen	479	184.279	781.45	24.97500	0.64626	0.64977	0.53200	0.53200
Naphthalene	480	128.173	748.35	40.50900	0.40999	0.38343	0.30239	0.30000

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
1M4-EBenzene	435.16	863.70	10.67	5.16484e+003	-1.51310e+001	3.18322e-001	-8.02110e-005
123-MBenzene	449.27	897.61	10.38	-5.56979e+002	3.75726e+001	1.68280e-001	1.08507e-004
124-MBenzene	442.50	879.70	10.54	-9.65999e+002	3.96879e+001	1.67130e-001	1.06074e-004
135-MBenzene	437.89	867.95	10.64	-8.47175e-007	-1.95880e+001	3.36199e-001	-1.23043e-004
n-BBenzene	456.45	863.17	10.85	5.16757e-007	-2.29882e+001	3.96699e-001	-1.46533e-004
i-BBenzene	445.94	856.87	10.85	2.48512e+004	-3.71647e+001	3.86625e-001	-9.69735e-005
sec-BBenzene	446.48	865.33	10.74	2.65691e+004	-4.25751e+001	3.87002e-001	-9.73076e-005
tert-Bbenzen	442.30	869.89	10.65	2.76699e+004	-4.53938e+001	3.86962e-001	-9.73910e-005
o-Cymene	451.33	880.36	10.60	2.79853e+004	-4.78085e+001	3.87432e-001	-9.77091e-005
m-Cymene	448.23	864.66	10.77	2.58377e+004	-4.05753e+001	3.86895e-001	-9.72245e-005
p-Cymene	450.28	859.96	10.84	2.49088e+004	-3.79580e+001	3.86761e-001	-9.71077e-005
1234-M-BZ	478.30	908.52	10.47	-4.72977e-006	4.84800e+000	3.66414e-001	-1.35739e-004
1235-M-BZ	471.20	800.23	11.83	1.15531e+004	2.12481e-001	3.84443e-001	-9.50497e-005
1245-M-BZ	469.99	889.83	10.63	2.68699e+004	-4.72460e+001	3.87808e-001	-9.80272e-005
135-iP-BZ	511.15	852.78	11.41	-1.11217e-004	-2.11002e+001	6.24375e-001	-2.32977e-004
n-Pentyl-BZ	478.55	862.80	11.03	-1.80215e-004	-4.10137e+001	4.84933e-001	-2.01921e-004
n-Hexyl-BZ	499.30	860.68	11.21	-2.85276e-006	-4.37413e+001	5.38284e-001	-2.28490e-004
n-Heptyl-BZ	519.15	859.41	11.38	-1.46940e-004	-4.28310e+001	5.79903e-001	-2.38181e-004
n-Octyl-BZ	537.54	860.30	11.50	-8.31858e-005	-4.37409e+001	6.27434e-001	-2.56319e-004
n-Nonyl-BZ	555.15	859.90	11.63	-1.29224e-004	-4.46481e+001	6.74905e-001	-2.74444e-004
n-Decyl-BZ	571.10	857.85	11.77	-1.96817e-004	-4.55583e+001	7.22417e-001	-2.92582e-004
n-Undecyl-BZ	586.40	857.72	11.87	-2.40416e-004	-4.64655e+001	7.69896e-001	-3.10706e-004
n-Dodecyl-BZ	600.80	857.60	11.97	-1.75770e-004	-4.73758e+001	8.17406e-001	-3.28844e-004
n-TridecylBZ	614.40	856.48	12.07	-2.17066e-004	-4.82854e+001	8.64918e-001	-3.46979e-004
n-TtrdecylBZ	627.20	856.39	12.16	-3.22769e-004	-4.91933e+001	9.12396e-001	-3.65106e-004
n-Pentdec-BZ	639.26	858.60	12.21	-9.18486e-005	-5.01026e+001	9.59906e-001	-3.83243e-004
n-HexdecylBZ	650.93	858.60	12.28	-3.86278e-004	-5.10108e+001	1.00738e+000	-4.01367e-004
13-iP-BZ	476.33	862.07	11.02	0.00000e+000	-7.26236e+001	6.20695e-001	-3.36428e-004
14-iP-BZ	483.65	859.78	11.11	0.00000e+000	-7.26238e+001	6.20695e-001	-3.36428e-004
Ethynyl-BZ	418.40	933.78	9.74	1.22953e-006	-3.83433e+001	3.29437e-001	-1.78945e-004
cis-C3=BZ	443.20	912.41	10.17	-6.44014e-006	-2.43320e+001	3.46432e-001	-1.50929e-004
trans-C3=BZ	443.20	909.58	10.20	-2.46352e-006	-2.93488e+001	3.61539e-001	-1.64332e-004
12-E-BZ	456.61	883.03	10.61	2.22310e-006	3.17563e+001	2.74480e-001	-9.55739e-006
13-E-BZ	454.30	863.62	10.83	-3.59182e-006	-3.50498e+001	4.31100e-001	-1.82883e-004
14-DiethylBZ	456.94	865.41	10.83	-1.42849e-006	2.63234e+001	2.67840e-001	6.84656e-006
124-E-BZ	490.70	877.09	10.94	-2.66621e-006	-1.35713e+001	4.81629e-001	-1.82677e-004
135-E-BZ	489.20	1502.56	6.38	-7.19396e-006	-2.52005e+001	5.00560e-001	-1.97111e-004
1234-E-BZ	524.20	890.65	11.01	-1.24508e-005	-6.94400e+000	5.99300e-001	-2.51831e-004
1245-E-BZ	523.20	881.93	11.11	-6.39221e-006	2.01396e+001	5.23649e-001	-1.78559e-004
Penta-M-BZ	505.10	920.17	10.53	-7.04748e-006	-3.84999e-001	4.37938e-001	-1.79423e-004
Penta-E-BZ	550.20	897.37	11.11	-5.75130e-006	-1.50920e+001	7.28996e-001	-3.24454e-004
ci1-PH-1-C3=	440.61	912.24	10.15	3.06779e+004	-6.04247e+001	3.42092e-001	-8.68836e-005
tr1-PH-1-C3=	451.44	909.89	10.26	2.88617e+004	-5.60876e+001	3.42009e-001	-8.68245e-005
1-M-NaphtIn	517.83	1024.01	9.54	-7.29866e-007	-1.08445e+001	3.34365e-001	-8.48194e-005
2-M-NaphtIn	514.20	1004.90	9.70	-1.04477e-006	-3.36989e+000	3.15682e-001	-6.78188e-005
BiPhenyl	528.15	1029.44	9.55	1.97497e+004	7.88908e+001	4.30631e-001	-9.93183e-005
1BNaphthalen	562.49	973.80	10.31	0.00000e+000	-6.08839e+001	5.95851e-001	-2.79555e-004
Naphthalene	491.14	969.05	9.90	0.00000e+000	-6.87890e+001	4.24945e-001	-2.16856e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
1M4-EBenzene	-1.80587e-008	1.07327e-011	1.00000e+000	-0.00058	-0.17892	HC	-4991660
123-MBenzene	-1.30887e-007	3.66563e-011	1.00000e+000	-0.93949	-1.23477	HC	-4985350
124-MBenzene	-1.27003e-007	3.51911e-011	1.00000e+000	-0.83644	-1.20053	HC	-4981000
135-MBenzene	1.92494e-008	5.04434e-021	1.00000e+000	-0.00620	-0.31343	HC	-4978850
n-BBenzene	2.14244e-008	-2.64726e-021	1.00000e+000	0.00004	-0.26712	HC	-5616750
i-BBenzene	-5.70395e-021	9.21601e-025	1.00000e+000	-0.03803	-0.28264	HC	
sec-BBenzene	1.85968e-021	-2.03294e-025	1.00000e+000	-0.12105	-0.38931	HC	
tert-Bbenzen	-6.10642e-022	-5.42118e-026	1.00000e+000	-0.10937	-0.37985	HC	
o-Cymene	3.35853e-021	-4.33695e-025	1.00000e+000	0.02420	-0.29745	HC	
m-Cymene	7.35546e-022	-1.49083e-025	1.00000e+000	0.01501	-0.30375	HC	
p-Cymene	-3.62222e-021	9.75813e-025	1.00000e+000	0.03257	-0.32554	HC	
1234-M-BZ	2.13933e-008	1.11902e-019	1.00000e+000	-0.03655	-0.36432	HC	
1235-M-BZ	1.05465e-021	-2.71035e-025	1.00000e+000	-0.19821	-0.66424	HC	
1245-M-BZ	1.47109e-021	-7.04754e-025	1.00000e+000	-0.03304	-0.42012	HC	
135-iP-BZ	3.53749e-008	1.37059e-018	1.00000e+000	0.45810	0.45710	HC	
n-Pentyl-BZ	3.62976e-008	2.21515e-018	1.00000e+000	-0.00968	-0.36015	HC	
n-Hexyl-BZ	4.31444e-008	1.53380e-020	1.00000e+000	-0.01021	-0.42748	HC	
n-Heptyl-BZ	4.22464e-008	1.81167e-018	1.00000e+000	-0.01021	-0.42748	HC	
n-Octyl-BZ	4.52225e-008	1.01024e-018	1.00000e+000	-0.00998	-0.45708	HC	
n-Nonyl-BZ	4.81956e-008	1.59401e-018	1.00000e+000	-0.00755	-0.49255	HC	
n-Decyl-BZ	5.11713e-008	2.40758e-018	1.00000e+000	-0.00417	-0.52095	HC	
n-Undecyl-BZ	5.41448e-008	2.91627e-018	1.00000e+000	-0.00249	-0.54572	HC	
n-Dodecyl-BZ	5.71204e-008	2.15920e-018	1.00000e+000	0.00250	-0.57406	HC	
n-TridecylBZ	6.00962e-008	2.65182e-018	1.00000e+000	0.00997	-0.60425	HC	
n-TtrdecylBZ	6.30696e-008	3.94595e-018	1.00000e+000	0.01328	-0.62255	HC	
n-Pentdec-BZ	6.60454e-008	1.13764e-018	1.00000e+000	0.01723	-0.64072	HC	
n-HexdecylBZ	6.90185e-008	4.77209e-018	1.00000e+000	0.02551	-0.66193	HC	
13-iP-BZ	1.10231e-007	-1.62479e-011	1.00000e+000	-0.02571	-0.43816	HC	-6770000
14-iP-BZ	1.10231e-007	-1.62479e-011	1.00000e+000	-0.11821	-0.28648	HC	
Ethynyl-BZ	4.30880e-008	-3.11734e-020	1.00000e+000	0.05659	-0.10519	HC	
cis-C3=BZ	2.95146e-008	1.50806e-019	1.00000e+000	0.09638	-0.12370	HC	
trans-C3=BZ	3.34871e-008	5.43993e-020	1.00000e+000	0.09212	-0.12905	HC	
12-E-BZ	-5.45223e-008	1.66983e-011	1.00000e+000	-0.02709	-0.44295	HC	-5559300
13-E-BZ	3.42720e-008	8.21587e-020	1.00000e+000	0.02781	-0.25613	HC	-5554300
14-DiethylBZ	-6.56195e-008	1.92333e-011	1.00000e+000	0.16926	-0.22440	HC	-163880
124-E-BZ	2.90201e-008	7.03696e-020	1.00000e+000	-0.09704	-0.53056	HC	
135-E-BZ	3.32678e-008	1.59189e-019	1.00000e+000	0.57423	0.54085	HC	
1234-E-BZ	4.75442e-008	2.92573e-019	1.00000e+000	-0.15273	-0.69941	HC	
1245-E-BZ	2.27718e-008	1.52909e-019	1.00000e+000	-0.14779	-0.69094	HC	
Penta-M-BZ	3.31745e-008	1.71284e-019	1.00000e+000	-0.13979	-0.55684	HC	
Penta-E-BZ	6.58217e-008	1.26024e-019	1.00000e+000	-0.15100	-0.78508	HC	
ci1-PH-1-C3=	-6.80622e-021	1.30667e-024	1.00000e+000	0.07176	-0.11806	HC	
tr1-PH-1-C3=	4.39899e-021	-8.94977e-025	1.00000e+000	0.06614	-0.15455	HC	
1-M-NaphtIn	-1.75476e-008	9.89536e-012	1.00000e+000	-0.01795	-0.45503	HC	
2-M-NaphtIn	-2.46182e-008	1.10399e-011	1.00000e+000	0.38528	0.04731	HC	
BiPhenyl	3.18899e-022	1.55712e-025	1.00000e+000	-0.03338	-0.25630	HC	
1BNaphthalen	5.92733e-008	-5.95438e-025	1.00000e+000	-0.02412	-0.46930	HC	
Naphthalene	4.95153e-008	-1.61777e-025	1.00000e+000	0.01397	-0.19302	HC	-4980900

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
1PNaphthalen	481	170.250	704.62	13.86400	0.96991	0.79262	0.76800	0.76800
c-Decalin	482	138.250	702.20	32.00000	0.47750	0.47970	0.28600	0.28600
t-Decalin	483	138.250	687.00	20.80000	0.47750	0.49038	0.27000	0.27000
12MNaphthaln	484	156.229	775.30	30.10000	0.52150	0.51104	0.44300	0.44300
13MNaphthaln	485	156.229	773.80	30.10000	0.52150	0.51259	0.44300	0.44300
14MNaphthaln	486	156.229	776.80	30.10000	0.52150	0.51191	0.44300	0.44300
16MNaphthlen	487	156.229	770.60	30.10000	0.52150	0.51841	0.44300	0.44300
17MNaphthlen	488	156.229	770.60	30.10000	0.52150	0.51359	0.44300	0.44300
23MNaphthlen	489	156.229	777.80	30.10000	0.52150	0.51899	0.44300	0.44300
1ENaphthalen	490	156.229	774.90	31.30000	0.52150	0.50886	0.39500	0.39500
2ENaphthalen	491	156.229	774.90	31.30000	0.52150	0.51663	0.39200	0.39200
2BNaphthalen	492	184.279	770.00	25.00000	0.63350	0.65229	0.53300	0.53300
1234THyNapht	493	132.205	720.15	36.20000	0.44100	0.43184	0.32770	0.32770
o-MStyrene	494	118.179	679.26	36.47300	0.37544	0.39776	0.25027	0.25027
AMS	495	118.178	654.00	33.60000	0.42300	0.40301	0.32730	0.32730
123MIndene	496	158.240	727.00	31.50000	0.49900	0.51850	0.48340	0.48340
c-Stilbene	497	180.248	757.00	27.30000	0.58400	0.59330	0.47080	0.47080
t-Stilbene	498	180.248	820.00	27.30000	0.57800	0.54387	0.48950	0.48950
Chrysene	499	228.292	979.00	23.80000	0.72500	0.65463	0.60400	0.60400
m-MStyrene	500	118.179	674.82	35.57600	0.38062	0.39956	0.28022	0.28022
p-MStyrene	501	118.179	675.93	35.43900	0.38062	0.39583	0.28251	0.28251
D-Limonene	502	136.205	650.00	27.50000	0.52400	0.49868	0.31230	0.31230
A-Pinene	503	136.235	632.00	27.60000	0.50400	0.47998	0.28620	0.28620
B-Pinene	504	136.235	642.00	27.60000	0.50600	0.48230	0.32520	0.32520
Terpinolene	505	136.235	672.00	27.60000	0.50900	0.48892	0.30060	0.30060
Anthracene	506	178.233	872.00	29.00000	0.55400	0.56505	0.48920	0.48920
Phenanthrene	507	178.233	869.25	29.00000	0.55400	0.55283	0.49490	0.49490
Acenaphthene	508	154.210	803.15	31.00000	0.55300	0.52820	0.38110	0.76949
Fluoranthene	509	202.255	905.00	26.10000	0.65500	0.72485	0.58750	1.03588
Pyrene	510	202.255	936.00	26.10000	0.63000	0.72346	0.50880	1.24999
o-Terphenyl	511	230.309	890.95	39.01000	0.75264	0.73844	0.46710	0.46710
m-Terphenyl	512	230.309	1197.00	35.05800	0.76770	0.78201	0.55830	0.55830
p-Terphenyl	513	230.309	925.95	33.23500	0.76261	0.74300	0.52810	0.52810
Indene	514	116.163	687.00	38.20000	0.36800	0.41828	0.33520	0.79778
Indane	515	118.178	659.56	35.51500	0.41350	0.41354	0.42874	0.21199
1MIndene	516	130.188	702.00	34.60000	0.44000	0.33197	0.33570	-0.65649
2MIndene	517	130.188	684.00	34.60000	0.42900	0.37270	0.32770	-0.09946
DiPhenylC1	518	168.229	766.39	30.41700	0.51923	0.56736	0.48797	0.48797
DiPhenylC2	519	182.270	773.60	24.81600	0.63159	0.65358	0.54192	0.54192
DiPhenylC3	520	196.291	798.56	26.25700	0.61598	0.67462	0.54298	0.54298
c-PhenylC3=	521	118.180	656.55	36.03300	0.38916	0.40990	0.37722	0.37722
t-PhenylC3=	522	118.180	660.91	34.67400	0.40531	0.41527	0.39057	0.39057
1PhNaphthIn	523	204.270	861.42	28.84300	0.61502	0.64456	0.49020	0.49020
2PhNaphthIn	524	204.270	870.31	27.74800	0.64097	0.65050	0.51443	0.51443
11DiPhnylC2=	525	180.240	782.61	30.39600	0.52892	0.59900	0.49793	0.49793
M-Acetylene	526	40.065	402.39	56.27600	0.16400	0.17325	0.21610	0.21610
VnylAcetlen	527	52.076	452.00	48.60000	0.21796	0.19966	0.11817	0.13346
DMAcetylene	528	54.092	473.20	48.70000	0.22100	0.21141	0.23854	0.23854

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
1PNaphthalen	547.65	772.82	12.88	0.00000e+000	1.26793e+001	5.08004e-001	-1.18736e-004
c-Decalin	468.60	901.20	10.48	-6.89912e-006	-1.09738e+002	5.52847e-001	-2.14318e-004
t-Decalin	460.40	873.26	10.76	-7.87674e-006	-9.76288e+001	5.21997e-001	-1.82507e-004
12MNaphthaln	539.50	1021.01	9.70	-5.41279e-006	-5.94623e+001	5.09646e-001	-2.44189e-004
13MNaphthaln	538.50	1017.51	9.73	-2.29746e-006	-5.17634e+001	4.91195e-001	-2.29224e-004
14MNaphthaln	540.50	1019.70	9.72	-5.41279e-006	-5.94623e+001	5.09646e-001	-2.44189e-004
16MNaphthlen	536.20	1005.19	9.83	-2.29746e-006	-5.17634e+001	4.91195e-001	-2.29224e-004
17MNaphthlen	536.20	1014.59	9.74	-2.29746e-006	-5.17634e+001	4.91195e-001	-2.29224e-004
23MNaphthlen	541.20	1006.03	9.85	-5.46816e-006	-3.20454e+001	4.42917e-001	-1.87748e-004
1ENaphthalen	531.50	1011.28	9.74	-7.51871e-006	-6.37975e+001	5.19494e-001	-2.53783e-004
2ENaphthalen	531.50	995.24	9.90	-3.56915e-006	-5.61026e+001	5.01097e-001	-2.38835e-004
2BNaphthalen	562.20	970.22	10.35	-9.36683e-006	-5.24664e+001	5.83247e-001	-2.61625e-004
1234THyNapht	480.77	973.88	9.79	1.45724e-006	-5.36892e+001	4.22950e-001	-1.73239e-004
o-MStyrene	442.99	912.93	10.16	3.06533e+004	-6.07674e+001	3.42164e-001	-8.69426e-005
AMS	438.65	900.00	10.27	0.00000e+000	-3.52507e+001	3.61659e-001	-1.51386e-004
123MIndene	507.00	1015.65	9.55	-2.18829e-004	-8.36868e+001	6.18669e-001	-3.66514e-004
c-Stilbene	535.00	1017.53	9.71	3.46741e-005	-9.80396e+001	6.27353e-001	-3.66111e-004
t-Stilbene	579.65	1135.03	8.94	2.58676e-005	-6.88535e+001	5.58621e-001	-2.79156e-004
Chrysene	714.15	1277.29	8.51	3.15166e-006	-4.57947e+001	5.70050e-001	-2.00323e-004
m-MStyrene	444.76	914.61	10.15	3.04038e+004	-6.02358e+001	3.42164e-001	-8.69426e-005
p-MStyrene	445.93	924.18	10.06	3.14652e+004	-6.41948e+001	3.42424e-001	-8.71778e-005
D-Limonene	449.65	847.37	11.00	2.14825e-005	-7.59809e+001	5.66142e-001	-3.15730e-004
A-Pinene	429.29	864.31	10.62	1.29074e-004	-7.59952e+002	2.09918e+000	-1.95822e-003
B-Pinene	439.19	873.16	10.59	2.80494e-005	-1.41870e+002	6.54759e-001	-3.46053e-004
Terpinolene	458.15	865.52	10.84	2.56695e-005	-6.02999e+001	5.28659e-001	-2.78810e-004
Anthracene	615.18	1093.20	9.46	-8.18794e-007	-7.02833e+001	5.44896e-001	-2.77496e-004
Phenanthrene	613.45	1118.41	9.24	4.13589e+004	-1.50592e+002	5.22962e-001	-1.37310e-004
Acenaphthene	550.54	1084.99	9.19	-3.69942e-006	-6.26899e+001	4.86203e-001	-2.45404e-004
Fluoranthene	655.95	1164.84	9.07	3.25661e-005	-1.13365e+002	7.25881e-001	-4.54726e-004
Pyrene	667.95	1274.04	8.35	1.89356e-006	2.27790e+001	3.06695e-001	6.84245e-005
o-Terphenyl	607.00	1077.82	9.56	2.40440e-006	-1.61104e+002	9.12834e-001	-6.02919e-004
m-Terphenyl	650.00	1088.93	9.68	2.40440e-006	-1.61104e+002	9.12834e-001	-6.02919e-004
p-Terphenyl	649.15	1098.53	9.59	2.40440e-006	-1.61104e+002	9.12834e-001	-6.02919e-004
Indene	455.77	1002.63	9.34	8.00622e-008	-3.32784e+001	3.18631e-001	-1.25461e-004
Indane	451.15	862.89	10.81	-1.54196e-004	-6.57169e+001	4.63299e-001	-2.81585e-004
1MIndene	471.65	975.72	9.70	2.17436e-005	-4.79650e+001	4.67178e-001	-2.77247e-004
2MIndene	457.00	980.50	9.56	2.09785e-005	-4.94134e+001	4.66822e-001	-2.76596e-004
DiPhenylC1	537.65	1000.79	9.88	4.00925e+004	-1.02360e+002	4.90124e-001	-1.26489e-004
DiPhenylC2	558.15	958.30	10.45	3.34328e+004	-7.56264e+001	5.29440e-001	-1.35624e-004
DiPhenylC3	573.45	1006.99	10.04	4.10091e+004	-1.09214e+002	5.72119e-001	-1.47801e-004
c-PhenylC3=	442.85	908.80	10.20	3.00426e+004	-5.81646e+001	3.41954e-001	-8.67531e-005
t-PhenylC3=	448.75	901.90	10.33	2.82913e+004	-5.32470e+001	3.41758e-001	-8.65779e-005
1PhNaphthIn	607.15	1096.00	9.40	4.67978e+004	-1.60646e+002	5.98623e-001	-1.56711e-004
2PhNaphthIn	618.15	1096.00	9.46	4.48736e+004	-1.56442e+002	5.98623e-001	-1.56711e-004
11DiPhnylC2=	550.15	1023.20	9.74	4.36305e+004	-1.18888e+002	5.25895e-001	-1.36215e-004
M-Acetylene	249.94	620.54	12.35	-3.93653e-007	1.47098e+001	9.31991e-002	-3.91331e-005
VnylAcetlen	278.25	688.43	11.54	1.09812e-006	6.75676e+000	1.42050e-001	-7.54998e-005
DMAcetylene	300.13	695.84	11.70	0.00000e+000	4.38362e+001	3.74811e-002	7.26968e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
1PNaphthalen	2.11241e-022	-3.43817e-026	1.00000e+000	-0.05739	-0.50440	HC	-163880
c-Decalin	3.39371e-008	1.59081e-019	1.00000e+000	-0.03350	-0.29280	HC	
t-Decalin	2.24636e-008	1.80860e-019	1.00000e+000	0.10303	-0.21308	HC	
12MNaphthaln	5.17716e-008	1.27132e-019	1.00000e+000	-0.28415	-0.70289	HC	
13MNaphthaln	4.74791e-008	5.33572e-020	1.00000e+000	-0.28076	-0.69891	HC	
14MNaphthaln	5.17716e-008	1.27132e-019	1.00000e+000	-0.28807	-0.70853	HC	
16MNaphthlen	4.74791e-008	5.33572e-020	1.00000e+000	-0.27358	-0.69059	HC	
17MNaphthlen	4.74791e-008	5.33572e-020	1.00000e+000	-0.27232	-0.68723	HC	
23MNaphthlen	3.48392e-008	1.29927e-019	1.00000e+000	-0.29092	-0.71510	HC	
1ENaphthalen	5.50917e-008	1.74564e-019	1.00000e+000	-0.26509	-0.63991	HC	
2ENaphthalen	5.08041e-008	8.23006e-020	1.00000e+000	-0.26862	-0.64714	HC	
2BNaphthalen	5.16615e-008	2.22014e-019	1.00000e+000	-0.29528	-0.84890	HC	
1234THyNapht	3.17863e-008	-8.23842e-013	1.00000e+000	0.10708	-0.32190	HC	-5357500
o-MStyrene	-2.41945e-021	7.39848e-025	1.00000e+000	-0.13149	-0.32618	HC	
AMS	2.60112e-008	3.96272e-013	1.00000e+000	-0.17035	-0.37343	HC	-4817800
123MIndene	9.99727e-008	2.68468e-018	1.00000e+000	0.51450	0.17290	HC	-6470000
c-Stilbene	1.27264e-007	-1.93891e-011	1.00000e+000	0.48280	0.51955	HC	-7196800
t-Stilbene	7.54080e-008	-8.42070e-012	1.00000e+000	0.50185	0.56171	HC	-7200000
Chrysene	7.67995e-009	8.92476e-012	1.00000e+000	-0.31896	-0.72468	HC	-8679380
m-MStyrene	8.43140e-022	-6.38417e-025	1.00000e+000	-0.11844	-0.32602	HC	
p-MStyrene	-4.41121e-021	1.20524e-024	1.00000e+000	-0.10332	-0.30801	HC	
D-Limonene	1.07014e-007	-1.62089e-011	1.00000e+000	0.33311	0.73059	HC	-5815300
A-Pinene	9.54907e-007	-1.85184e-010	1.00000e+000	0.27012	-0.24419	HC	-5850000
B-Pinene	1.03543e-007	-1.33324e-011	1.00000e+000	0.09917	-0.46443	HC	-5860000
Terpinolene	9.03001e-008	-1.33557e-011	1.00000e+000	0.52697	0.39212	HC	
Anthracene	7.61206e-008	-8.37831e-012	1.00000e+000	0.45541	0.03286	HC	-6847300
Phenanthrene	3.74106e-021	4.13930e-025	1.00000e+000	-1.11426	-0.85107	HC	-6834300
Acenaphthene	6.83739e-008	-7.94831e-012	1.00000e+000	-0.35957	-0.78581	HC	-6001400
Fluoranthene	1.61364e-007	-2.45489e-011	1.00000e+000	0.14372	-0.34185	HC	-7695000
Pyrene	-1.35172e-007	3.85971e-011	1.00000e+000	-0.15067	-0.60746	HC	-7620000
o-Terphenyl	2.28505e-007	-3.64280e-011	1.00000e+000	-0.09054	-0.61114	HC	-9050000
m-Terphenyl	2.28505e-007	-3.64280e-011	1.00000e+000	-0.34365	-0.46870	HC	-9050000
p-Terphenyl	2.28505e-007	-3.64280e-011	1.00000e+000	0.13541	-0.28264	HC	-9052500
Indene	1.94304e-008	5.08761e-013	1.00000e+000	0.09242	-0.35265	HC	-4619500
Indane	7.84246e-008	1.89164e-018	1.00000e+000	-0.00202	-0.37163	HC	
1MIndene	9.66714e-008	-1.48368e-011	1.00000e+000	0.05029	-0.19363	HC	-5210000
2MIndene	9.66621e-008	-1.48224e-011	1.00000e+000	0.15590	-0.05453	HC	-5260000
DiPhenylC1	-2.88748e-021	1.38442e-024	1.00000e+000	-0.27282	-0.71163	HC	
DiPhenylC2	-1.94117e-021	-4.04901e-025	1.00000e+000	-0.28503	-0.80807	HC	
DiPhenylC3	-4.56660e-021	1.47661e-024	1.00000e+000	-0.34380	-0.87753	HC	
c-PhenylC3=	-1.05088e-021	1.61097e-025	1.00000e+000	0.10190	-0.13330	HC	
t-PhenylC3=	-5.22996e-021	8.11453e-025	1.00000e+000	0.09140	-0.15454	HC	
1PhNaphthIn	-6.54752e-021	2.35136e-024	1.00000e+000	-0.50201	-1.01515	HC	
2PhNaphthIn	-4.03412e-021	5.77528e-025	1.00000e+000	-0.51963	-1.06029	HC	
11DiPhnylC2=	7.82728e-022	4.27690e-025	1.00000e+000	-0.31258	-0.77074	HC	-7250000
M-Acetylene	8.05984e-009	2.25009e-021	1.00000e+000	0.15252	0.06508	HC	
VnylAcetlen	1.86523e-008	-5.78713e-021	1.00000e+000	0.07695	-0.21708	HC	
DMAcetylene	-6.23091e-008	1.54259e-011	1.00000e+000	0.00670	-0.09612	HC	-2418890

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
EAcetylene	529	54.092	443.20	49.50000	0.22200	0.25650	0.24690	0.09860
Biacetylene	530	50.060	477.00	58.60000	0.18350	0.18602	0.10000	0.10000
3-M-1-Butyne	531	68.120	476.00	42.10000	0.27150	0.30576	0.17600	0.17600
1-Pentyne	532	68.120	493.50	40.50000	0.27800	0.26670	0.16400	0.16400
2-Pentyne	533	68.120	522.00	42.30000	0.27750	0.26618	0.18600	0.18600
1-Hexyne	534	82.150	527.00	36.70000	0.33350	0.32544	0.24900	0.24900
1-Heptyne	535	96.170	559.70	32.00000	0.38950	0.38382	0.29300	0.29300
1-Octyne	536	110.196	586.90	29.60000	0.44550	0.44395	0.33800	0.33800
1-Nonyne	537	124.230	610.80	26.60000	0.50150	0.50542	0.38200	0.38200
1-Decyne	538	138.240	632.50	24.30000	0.55750	0.56855	0.42600	0.42600
1-Undecyne	539	152.279	650.00	22.10000	0.61350	0.63316	0.47000	0.47000
1-Tridecyne	540	180.330	684.10	18.60000	0.72550	0.77809	0.55300	0.55300
1-Pentadecyn	541	208.389	711.40	15.90000	0.83750	0.90539	0.62800	0.62800
1-Hexadecyne	542	222.410	724.30	14.50000	0.89350	0.97589	0.66100	0.66100
1-Octadecyne	543	250.470	747.30	12.80000	1.00496	1.11772	0.71500	0.71500
1-Nonadecyn	544	264.489	758.90	11.90000	1.06149	1.18787	0.73500	0.73500
1-Eicosyne	545	278.520	769.80	11.20000	1.11749	1.28884	0.75000	0.75000
C3=Carbonate	546	102.083	778.25	54.03700	0.25145	0.29962	0.63252	0.63252
2M1Buten3yne	547	66.103	492.00	43.80000	0.24800	0.25172	0.13704	0.13704
1Pentene3yne	548	66.103	520.00	44.00000	0.25600	0.25135	0.25231	0.25231
1Pentene4yne	549	66.103	503.00	44.00000	0.25600	0.24770	0.17864	0.17864
13CC6==	550	80.130	558.00	47.30000	0.27700	0.27343	0.23084	0.23084
14CC6==	551	80.130	569.00	47.30000	0.27700	0.26947	0.20483	0.20483
MCC5==	552	80.130	541.00	44.30000	0.27900	0.28213	0.23756	0.23756
CC6=	553	82.145	560.40	43.50000	0.29100	0.29071	0.21425	0.21425
14C6==	554	82.145	510.00	33.50000	0.33100	0.33052	0.27995	0.27995
cstrns24C6==	555	82.145	538.00	33.50000	0.33100	0.32617	0.27537	0.27537
trstrs24C6==	556	82.145	535.00	33.50000	0.33100	0.33001	0.28211	0.28211
2Norbornene	557	94.156	583.00	39.30000	0.33700	0.33342	0.15900	0.15900
CC7=	558	96.172	598.00	40.10000	0.33600	0.34383	0.25171	0.25171
cis2C7=	559	98.188	549.00	28.40000	0.42400	0.40341	0.29415	0.29415
trans2C7=	560	98.188	543.00	28.50000	0.40600	0.40984	0.33717	0.33717
cis3C7=	561	98.188	545.00	28.40000	0.42100	0.40508	0.29491	0.29491
trans3C7=	562	98.188	540.00	28.50000	0.40600	0.41053	0.33406	0.33406
2M1C6=	563	98.188	538.00	28.70000	0.39800	0.40462	0.30937	0.30937
3M1C6=	564	98.188	528.00	29.50000	0.39800	0.40821	0.30573	0.30573
4M1C6=	565	98.188	534.00	30.40000	0.39800	0.40541	0.30241	0.30241
15CC8==	566	108.180	645.00	39.00000	0.36600	0.37339	0.28581	0.28581
VinylCC6=	567	108.180	599.00	34.30000	0.37900	0.39322	0.32936	0.32936
CC8=	568	110.195	632.00	36.80000	0.38100	0.39388	0.28043	0.28043
23M1C6=	569	112.211	561.00	27.60000	0.44500	0.45917	0.32514	0.32514
nBCC5	570	126.238	621.00	27.20000	0.48300	0.49622	0.37188	0.37188
iPCC6	571	126.238	627.00	28.50000	0.46400	0.48155	0.32951	0.32951
mDiVinylBZ	572	130.188	692.00	31.20000	0.44000	0.44523	0.37336	0.37336
2PHButene1	573	132.205	666.00	30.10000	0.45400	0.46450	0.35321	0.35321
cis2PHC4=2	574	132.205	685.00	30.10000	0.47000	0.45197	0.35639	0.35639
trn2PHC4=2	575	132.205	654.00	30.10000	0.46400	0.46074	0.36102	0.36102
mDiEBenzene	576	134.220	663.00	28.80000	0.48800	0.48582	0.35402	0.35402

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
EAcetylene	281.22	659.29	12.09	6.42713e-007	1.25498e+001	1.37200e-001	-5.14998e-005
Biacetylene	283.50	717.26	11.14	4.42319e-008	2.43669e+001	1.12625e-001	-7.53633e-005
3-M-1-Butyne	299.50	598.74	13.59	-1.35183e-006	4.64999e+000	2.03880e-001	-8.77263e-005
1-Pentyne	313.30	694.89	11.89	6.54570e-007	1.80694e+001	1.75552e-001	-6.37673e-005
2-Pentyne	329.20	715.27	11.74	-3.78997e-006	1.21959e+001	1.67229e-001	-5.23098e-005
1-Hexyne	344.50	719.96	11.84	4.14881e-006	1.18009e+001	2.32609e-001	-9.00364e-005
1-Heptyne	372.90	736.85	11.88	-3.69412e-006	1.06057e+001	2.80848e-001	-1.09086e-004
1-Octyne	399.40	749.84	11.95	-2.43465e-006	9.67653e+000	3.28157e-001	-1.26781e-004
1-Nonyne	423.00	760.31	12.01	-5.01213e-006	7.73500e+000	3.78734e-001	-1.48756e-004
1-Decyne	447.20	768.82	12.10	-9.91961e-006	6.67799e+000	4.26494e-001	-1.67038e-004
1-Undecyne	468.20	775.98	12.17	-3.56624e-006	5.86495e+000	4.73519e-001	-1.84442e-004
1-Tridecyne	507.20	775.81	12.50	-1.65744e-005	3.53099e+000	5.70198e-001	-2.22937e-004
1-Pentadecyn	541.20	795.59	12.46	-1.70598e-005	2.45997e-001	6.68943e-001	-2.63452e-004
1-Hexadecyne	557.20	799.22	12.52	-6.90670e-006	-5.77999e-001	7.16049e-001	-2.80899e-004
1-Octadecyne	586.20	805.11	12.65	-4.48574e-006	-3.53000e+000	8.14145e-001	-3.20870e-004
1-Nonadecyn	600.20	807.95	12.70	-2.49489e-005	-4.36095e+000	8.61295e-001	-3.38461e-004
1-Eicosyne	613.20	796.25	12.98	-7.77592e-006	-5.14660e+000	9.01806e-001	-3.53336e-004
C3=Carbonate	515.05	1204.68	8.09	-4.38609e-001	1.84194e+002	-3.78269e-001	3.90732e-004
2M1Buten3yne	305.40	709.03	11.55	0.00000e+000	1.19402e+001	1.71227e-001	-7.43297e-005
1Pentene3yne	332.40	745.68	11.30	0.00000e+000	8.36667e+000	1.72663e-001	-8.23077e-005
1Pentene4yne	315.65	734.05	11.28	0.00000e+000	1.02387e+001	1.76464e-001	-9.16770e-005
13CC6==	353.49	847.36	10.15	0.00000e+000	1.14669e+001	1.13443e-001	1.02799e-004
14CC6==	360.15	859.69	10.07	0.00000e+000	-2.13768e+001	2.27895e-001	-6.47968e-005
MCC5==	345.93	814.09	10.49	0.00000e+000	-6.28080e+001	3.67779e-001	-2.38691e-004
CC6=	356.12	814.85	10.58	0.00000e+000	1.30052e+001	1.12627e-001	1.34680e-004
14C6==	338.15	704.37	12.03	0.00000e+000	-1.46534e+000	2.44876e-001	-1.01643e-004
cstrns24C6==	356.65	727.28	11.86	0.00000e+000	-2.39178e+001	2.99259e-001	-1.58589e-004
trstrs24C6==	355.05	718.60	11.99	0.00000e+000	-1.61932e+001	2.97498e-001	-1.65170e-004
2Norbornene	368.65	787.06	11.08	0.00000e+000	-7.36892e+001	3.72665e-001	-1.61917e-004
CC7=	387.50	830.80	10.68	0.00000e+000	-2.83849e+001	2.91356e-001	-6.49903e-005
cis2C7=	371.56	711.17	12.30	0.00000e+000	3.77917e+001	1.72517e-001	7.48232e-005
trans2C7=	371.10	705.01	12.40	0.00000e+000	2.40794e+001	2.22183e-001	1.07605e-005
cis3C7=	368.90	706.62	12.35	0.00000e+000	-2.48693e+001	3.37646e-001	-1.26000e-004
trans3C7=	368.82	701.89	12.43	0.00000e+000	1.84570e+000	2.80099e-001	-5.87744e-005
2M1C6=	364.99	706.77	12.30	0.00000e+000	1.81853e+001	2.54608e-001	-3.58802e-005
3M1C6=	357.05	695.18	12.41	0.00000e+000	8.60736e+000	2.65880e-001	-3.78935e-005
4M1C6=	359.88	702.29	12.32	0.00000e+000	-2.29136e+001	3.56949e-001	-1.58089e-004
15CC8==	423.27	886.80	10.30	0.00000e+000	6.32663e+000	1.98973e-001	1.03224e-004
VinylCC6=	401.00	834.26	10.75	0.00000e+000	-8.83598e+001	4.93059e-001	-2.98428e-004
CC8=	416.15	850.65	10.68	0.00000e+000	-3.77401e+001	3.44386e-001	-7.22440e-005
23M1C6=	383.65	725.05	12.19	0.00000e+000	-9.84466e+000	3.54890e-001	-1.11696e-004
nBCC5	429.75	788.51	11.64	0.00000e+000	-2.95458e+001	4.03353e-001	-1.09698e-004
iPCC6	427.91	805.58	11.38	0.00000e+000	-7.12234e+001	5.01913e-001	-1.98026e-004
mDiVinylBZ	472.65	933.00	10.16	0.00000e+000	-3.80072e+001	4.35021e-001	-2.53643e-004
2PHButene1	455.15	894.53	10.46	0.00000e+000	-5.65044e+001	4.87242e-001	-2.84411e-004
cis2PHC4=2	467.85	926.67	10.19	0.00000e+000	-5.04016e+001	4.55338e-001	-2.47381e-004
trn2PHC4=2	447.15	899.48	10.34	0.00000e+000	-4.25029e+001	4.52043e-001	-2.51212e-004
mDiEBenzene	454.29	867.49	10.78	0.00000e+000	3.05826e+001	2.46683e-001	5.20796e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
EAcetylene	8.62478e-009	-3.71692e-021	1.00000e+000	-0.22653	0.04388	HC	-2466810
Biacetylene	2.19941e-008	-1.18403e-021	1.00000e+000	0.03761	-0.09104	HC	
3-M-1-Butyne	1.75130e-008	3.20144e-020	1.00000e+000	0.05178	0.41304	HC	
1-Pentyne	1.02448e-008	-1.39658e-020	1.00000e+000	0.07456	-0.16708	HC	
2-Pentyne	6.32648e-009	8.96509e-020	1.00000e+000	0.09270	-0.18759	HC	
1-Hexyne	1.57984e-008	-9.72277e-020	1.00000e+000	0.04794	-0.14977	HC	
1-Heptyne	1.91591e-008	8.70700e-020	1.00000e+000	0.04620	-0.18029	HC	
1-Octyne	2.18758e-008	5.47674e-020	1.00000e+000	0.02886	-0.23244	HC	
1-Nonyne	2.65046e-008	1.20447e-019	1.00000e+000	0.02084	-0.27867	HC	
1-Decyne	2.94695e-008	2.32443e-019	1.00000e+000	-0.00424	-0.35117	HC	
1-Undecyne	3.20867e-008	8.40808e-020	1.00000e+000	-0.04913	-0.45664	HC	
1-Tridecyne	3.90294e-008	3.87182e-019	1.00000e+000	-0.07058	-0.55635	HC	
1-Pentadecyn	4.66666e-008	4.09524e-019	1.00000e+000	-0.05111	-0.60091	HC	
1-Hexadecyne	4.92967e-008	1.64995e-019	1.00000e+000	-0.02165	-0.59392	HC	
1-Octadecyne	5.67715e-008	1.01001e-019	1.00000e+000	0.02654	-0.57896	HC	
1-Nonadecyn	5.94815e-008	5.82934e-019	1.00000e+000	0.05480	-0.56523	HC	
1-Eicosyne	6.16643e-008	1.79748e-019	1.00000e+000	0.10562	-0.50271	HC	
C3=Carbonate	-1.54743e-010	8.83108e-014	1.00000e+000	-0.02142	-0.59543	HC	
2M1Buten3yne	1.62341e-008	-1.08209e-012	1.00000e+000	0.15016	-0.01098	HC	-2929990
1Pentene3yne	2.45116e-008	-3.49268e-012	1.00000e+000	-0.08541	-0.16758	HC	-2910000
1Pentene4yne	3.10679e-008	-4.97950e-012	1.00000e+000	0.14234	-0.00800	HC	-2929990
13CC6==	-1.14131e-007	3.11808e-011	1.00000e+000	-0.06349	-0.36235	HC	-3399910
14CC6==	-5.49499e-009	5.31542e-012	1.00000e+000	0.22721	0.10783	HC	-3404000
MCC5==	9.12347e-008	-1.51430e-011	1.00000e+000	-0.14942	-0.29462	HC	-3400000
CC6=	-1.36400e-007	3.61752e-011	1.00000e+000	-0.06493	-0.41377	HC	-3531380
14C6==	2.41245e-008	-2.49020e-012	1.00000e+000	-0.02941	-0.14188	HC	-3611000
cstrns24C6==	5.24560e-008	-8.16206e-012	1.00000e+000	-0.04193	-0.09551	HC	-3488000
trstrs24C6==	5.86082e-008	-9.55786e-012	1.00000e+000	0.01395	-0.04030	HC	-3580000
2Norbornene	3.28175e-008	-1.41814e-012	1.00000e+000	-0.13299	-0.46454	HC	-4019990
CC7=	-1.88007e-008	9.32648e-012	1.00000e+000	0.36986	-0.01016	HC	-4159000
cis2C7=	-9.78203e-008	2.67523e-011	1.00000e+000	-0.02697	-0.21716	HC	-4342420
trans2C7=	-5.96955e-008	1.75643e-011	1.00000e+000	-0.00097	-0.21041	HC	-4339990
cis3C7=	1.92562e-008	-1.29454e-013	1.00000e+000	-0.06805	-0.27580	HC	-4343320
trans3C7=	-1.97295e-008	8.65519e-012	1.00000e+000	-0.04696	-0.27144	HC	-4339990
2M1C6=	-3.04558e-008	1.06938e-011	1.00000e+000	-0.02800	-0.21328	HC	-4335000
3M1C6=	-3.36773e-008	1.19670e-011	1.00000e+000	-0.05232	-0.26279	HC	-4346000
4M1C6=	3.98719e-008	-4.95311e-012	1.00000e+000	-0.06185	-0.29190	HC	-4349990
15CC8==	-1.35519e-007	3.76788e-011	1.00000e+000	-0.29298	-0.42878	HC	-4659980
VinylCC6=	1.10176e-007	-1.81100e-011	1.00000e+000	-0.20890	-0.24468	HC	-4626000
CC8=	-2.77139e-008	1.27025e-011	1.00000e+000	0.32186	-0.11602	HC	-4771990
23M1C6=	7.46807e-009	1.56095e-012	1.00000e+000	-0.06248	-0.21682	HC	-4947000
nBCC5	-6.25754e-009	7.39968e-012	1.00000e+000	-0.02602	-0.36628	HC	-5503700
iPCC6	3.55217e-008	-9.48315e-013	1.00000e+000	-0.03172	-0.40741	HC	-5480000
mDiVinylBZ	8.88770e-008	-1.38521e-011	1.00000e+000	-0.29893	-0.43837	HC	-5300010
2PHButene1	1.00654e-007	-1.58019e-011	1.00000e+000	-0.13338	-0.40922	HC	-5430000
cis2PHC4=2	8.21297e-008	-1.23274e-011	1.00000e+000	-0.21342	-0.39956	HC	-5420000
trn2PHC4=2	8.66331e-008	-1.36569e-011	1.00000e+000	-0.14632	-0.39728	HC	-5420000
mDiEBenzene	-1.03793e-007	3.03000e-011	1.00000e+000	-0.11712	-0.40460	HC	-5554300

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
2EmXylene	577	134.220	671.00	30.20000	0.48200	0.47977	0.40660	0.40660
2EpXylene	578	134.220	663.00	28.80000	0.48200	0.48610	0.41142	0.41142
3EoXylene	579	134.220	680.00	28.80000	0.50700	0.47462	0.36211	0.36211
4EmXylene	580	134.220	665.00	28.80000	0.48200	0.48729	0.41396	0.41396
4EoXylene	581	134.220	667.00	28.80000	0.49000	0.48842	0.41136	0.41136
5EmXylene	582	134.220	655.00	27.50000	0.48200	0.49218	0.41694	0.41694
1M2nPropylBZ	583	134.220	662.00	29.40000	0.48200	0.48727	0.40701	0.40701
1M3nPropylBZ	584	134.220	654.00	28.10000	0.48200	0.49328	0.41278	0.41278
1M4nPropylBZ	585	134.220	656.00	28.10000	0.48200	0.49501	0.41344	0.41344
Camphene	586	136.235	638.00	27.50000	0.49900	0.47516	0.29574	0.29574
aPhellandren	587	136.235	649.00	28.20000	0.50000	0.50373	0.38046	0.38046
bPhellandren	588	136.235	648.00	28.20000	0.48700	0.50631	0.37421	0.37421
aTerpinene	589	136.235	652.00	28.00000	0.50600	0.51153	0.37549	0.37549
gTerpinene	590	136.235	661.00	28.00000	0.50500	0.50437	0.37500	0.37500
LMenthol	591	156.268	658.00	27.10000	0.57200	0.58290	0.77961	0.77961
Acebaphthlne	592	152.195	792.00	32.00000	0.54400	0.55601	0.39870	0.39870
26DMNaphthal	593	156.227	777.00	31.70000	0.52000	0.52667	0.41768	0.41768
BiCycloHexyl	594	166.307	727.00	25.60000	0.59800	0.61309	0.42756	0.42756
Fluorene	595	166.222	870.00	47.00000	0.40000	0.39930	0.34926	0.34926
DiPhenylC2#	596	178.233	832.00	29.00000	0.61100	0.60756	0.38359	0.38359
11DiPHEthane	597	182.264	775.00	26.80000	0.60400	0.60915	0.45664	0.45664
1PHIndene	598	192.259	865.00	27.60000	0.62700	0.60880	0.46903	0.46903
1nHxNaphthal	599	212.335	813.00	22.50000	0.74100	0.78393	0.58738	0.58738
1C61234THyNa	600	216.367	779.00	18.90000	0.77100	0.81698	0.58879	0.58879
24DiPH4MC5=1	601	236.356	835.00	20.00000	0.83900	0.83322	0.54669	0.54669
23MDiPHC4	602	238.373	805.00	19.90000	0.78100	0.74892	0.52078	0.52078
1nC9Naphthal	603	254.414	849.00	16.80000	1.00000	0.96996	0.61678	0.61678
TriPHC2=	604	256.346	908.00	21.00000	0.86000	0.85726	0.59984	0.59984
112TriPHC2	605	258.363	840.00	20.40000	0.80800	0.80150	0.61161	0.61161
1C10Naphthal	606	268.441	859.00	15.80000	1.07000	1.03972	0.64149	0.64149
AllylAlcohol	607	58.080	542.00	56.20000	0.20000	0.21249	0.57225	0.57225
Propargyl-ol	608	56.064	570.00	65.20000	0.17599	0.18716	0.55460	0.55460
2-Hexanol	609	102.177	586.20	40.50000	0.38100	0.40933	0.63063	0.63063
2-E-1-C4ol	610	102.177	570.00	32.00000	0.37999	0.40731	0.71362	0.71362
4-M-2-C5ol	611	102.177	574.40	34.70000	0.37999	0.40141	0.57234	0.57234
2-M-1-C5ol	612	102.177	582.00	32.00000	0.37999	0.40933	0.72618	0.72618
1-M-CC6ol	613	114.188	602.00	37.70000	0.41400	0.41418	0.68298	0.68298
ci2-M-CC6ol	614	114.188	612.00	37.70000	0.41400	0.41277	0.67873	0.67873
tr2-M-CC6ol	615	114.188	616.00	37.70000	0.41400	0.41488	0.68304	0.68304
ci3-M-CC6ol	616	114.188	617.00	37.70000	0.41400	0.42151	0.70420	0.70420
tr3-M-CC6ol	617	114.188	617.00	37.70000	0.41398	0.41841	0.69708	0.69708
ci4-M-CC6ol	618	114.188	622.00	37.70000	0.41400	0.42267	0.68537	0.68537
tr4-M-CC6ol	619	114.188	622.00	37.70000	0.41400	0.42469	0.69134	0.69134
1-Octanol	620	130.231	652.50	28.60000	0.49000	0.52363	0.58700	0.58700
2-Octanol	621	130.231	637.00	28.60000	0.49000	0.51174	0.50563	0.50563
4-M-3-C7ol	622	130.231	623.50	28.60000	0.49000	0.53731	0.52999	0.52999
5-M-3-C7ol	623	130.231	621.20	28.60000	0.49000	0.54613	0.57800	0.57800
2-E-1-C6ol	624	130.231	640.20	28.60000	0.49000	0.48561	0.58846	0.36504

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
2EmXylene	463.19	893.93	10.53	0.00000e+000	-3.51807e+001	4.60448e-001	-2.37888e-004
2EpXylene	459.98	880.72	10.66	0.00000e+000	-3.33515e+001	4.39426e-001	-2.10727e-004
3EoXylene	467.11	895.67	10.54	0.00000e+000	-4.11320e+001	4.82242e-001	-2.75049e-004
4EmXylene	461.59	879.87	10.69	0.00000e+000	-3.33515e+001	4.39426e-001	-2.10727e-004
4EoXylene	462.93	877.91	10.72	0.00000e+000	-3.33515e+001	4.39426e-001	-2.10727e-004
5EmXylene	456.93	868.34	10.79	0.00000e+000	-2.35566e+001	3.95624e-001	-1.55646e-004
1M2nPropylBZ	457.95	877.18	10.69	0.00000e+000	-3.13699e+001	4.34905e-001	-1.98137e-004
1M3nPropylBZ	454.95	865.05	10.82	0.00000e+000	-3.56067e+001	4.29697e-001	-1.90873e-004
1M4nPropylBZ	456.45	862.86	10.86	0.00000e+000	-3.56067e+001	4.29697e-001	-1.90873e-004
Camphene	433.65	847.62	10.86	0.00000e+000	-1.56706e+002	6.74306e-001	-3.67829e-004
aPhellandren	448.15	850.55	10.95	0.00000e+000	-1.06322e+002	6.50970e-001	-4.14300e-004
bPhellandren	447.15	844.39	11.02	0.00000e+000	-1.08372e+002	6.60102e-001	-4.21483e-004
aTerpinene	450.35	837.48	11.13	0.00000e+000	-5.61794e+001	5.83674e-001	-3.67675e-004
gTerpinene	456.15	852.34	10.99	0.00000e+000	-7.97671e+001	6.39945e-001	-4.29632e-004
LMenthol	489.55	879.63	10.90	0.00000e+000	-6.52422e+001	5.53353e-001	-1.84245e-004
Acebaphthlne	543.15	854.46	11.62	0.00000e+000	-4.66084e+001	4.01206e-001	-1.57036e-004
26DMNaphthal	535.15	928.89	10.63	0.00000e+000	-5.16662e+001	5.06093e-001	-2.71783e-004
BiCycloHexyl	512.19	889.13	10.95	0.00000e+000	-1.19241e+002	6.70741e-001	-2.49002e-004
Fluorene	570.44	1296.18	7.78	0.00000e+000	-7.37864e+001	5.00965e-001	-2.20494e-004
DiPhenylC2#	573.00	945.70	10.68	0.00000e+000	-6.61400e+001	5.26352e-001	-2.49963e-004
11DiPHEthane	545.78	1003.03	9.91	0.00000e+000	-1.06188e+002	6.73943e-001	-3.92989e-004
1PHIndene	610.00	1082.89	9.53	0.00000e+000	-6.19061e+001	5.40321e-001	-1.99703e-004
1nHxNaphthal	595.15	953.49	10.73	0.00000e+000	-8.37895e+001	7.64102e-001	-4.11979e-004
1C61234THyNa	578.15	924.20	10.97	0.00000e+000	-1.27795e+002	8.81553e-001	-4.92860e-004
24DiPH4MC5=1	614.00	984.98	10.50	0.00000e+000	-1.42391e+002	9.52683e-001	-5.89548e-004
23MDiPHC4	589.00	1021.63	9.98	0.00000e+000	-1.65798e+002	1.01196e+000	-6.16230e-004
1nC9Naphthal	639.00	939.91	11.15	0.00000e+000	-7.84226e+001	8.73513e-001	-4.31527e-004
TriPHC2=	669.00	1041.75	10.21	0.00000e+000	-1.27691e+002	8.96947e-001	-5.40993e-004
112TriPHC2	622.00	1120.17	9.27	0.00000e+000	-1.50933e+002	9.29285e-001	-5.34889e-004
1C10Naphthal	652.00	934.46	11.29	0.00000e+000	-8.50472e+001	9.37895e-001	-4.71584e-004
AllylAlcohol	370.20	855.52	10.21	0.00000e+000	-1.10574e+000	1.57404e-001	-6.77782e-005
Propargyl-ol	386.75	955.18	9.28	0.00000e+000	2.12572e+001	1.02387e-001	-3.71997e-005
2-Hexanol	411.00	815.00	11.10	8.80896e-007	4.81098e+000	2.94550e-001	-1.00333e-004
2-E-1-C4ol	419.65	836.63	10.89	0.00000e+000	-7.69602e+000	3.26881e-001	-1.30993e-004
4-M-2-C5ol	404.85	813.02	11.07	0.00000e+000	-1.16052e+000	3.17890e-001	-1.22339e-004
2-M-1-C5ol	421.15	836.52	10.90	0.00000e+000	-4.35707e+000	3.13961e-001	-1.16867e-004
1-M-CC6ol	430.15	923.44	9.94	0.00000e+000	-4.17186e+001	3.81117e-001	-1.27719e-004
ci2-M-CC6ol	438.15	930.86	9.93	0.00000e+000	-4.87160e+001	3.89962e-001	-1.32898e-004
tr2-M-CC6ol	439.65	928.23	9.97	0.00000e+000	-4.87160e+001	3.89962e-001	-1.32898e-004
ci3-M-CC6ol	441.15	920.24	10.06	0.00000e+000	-4.87160e+001	3.89962e-001	-1.32898e-004
tr3-M-CC6ol	441.15	924.69	10.01	0.00000e+000	-4.87160e+001	3.89962e-001	-1.32898e-004
ci4-M-CC6ol	444.15	914.53	10.15	0.00000e+000	-4.87160e+001	3.89962e-001	-1.32898e-004
tr4-M-CC6ol	444.15	911.79	10.18	0.00000e+000	-4.87160e+001	3.89962e-001	-1.32898e-004
1-Octanol	468.30	829.96	11.38	0.00000e+000	6.17497e+000	3.80600e-001	-1.26650e-004
2-Octanol	452.00	824.23	11.33	0.00000e+000	2.58964e+001	3.82302e-001	-1.40893e-004
4-M-3-C7ol	442.00	785.44	11.80	0.00000e+000	2.51151e+001	3.37446e-001	-1.19306e-004
5-M-3-C7ol	445.00	782.40	11.87	0.00000e+000	2.51151e+001	3.37446e-001	-1.19306e-004
2-E-1-C6ol	457.80	836.76	11.20	0.00000e+000	-1.49987e+001	4.32987e-001	-1.76114e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
2EmXylene	7.51072e-008	-1.10894e-011	1.00000e+000	-0.34332	-0.66528	HC	-5548000
2EpXylene	5.98738e-008	-7.74751e-012	1.00000e+000	-0.20828	-0.53396	HC	-5543000
3EoXylene	1.04916e-007	-2.01471e-011	1.00000e+000	-0.36227	-0.66156	HC	-5547300
4EmXylene	5.98738e-008	-7.74751e-012	1.00000e+000	-0.15894	-0.44739	HC	-5544000
4EoXylene	5.98738e-008	-7.74751e-012	1.00000e+000	-0.23389	-0.55392	HC	-5542000
5EmXylene	2.95719e-008	-1.42245e-012	1.00000e+000	-0.25308	-0.59867	HC	-5539990
1M2nPropylBZ	4.92428e-008	-4.85122e-012	1.00000e+000	-0.31696	-0.62283	HC	-5555400
1M3nPropylBZ	4.62371e-008	-4.39211e-012	1.00000e+000	-0.19260	-0.52262	HC	5551600
1M4nPropylBZ	4.62371e-008	-4.39211e-012	1.00000e+000	-0.06269	-0.36309	HC	-5552790
Camphene	1.17338e-007	-1.65987e-011	1.00000e+000	0.00373	-0.55536	HC	-5790000
aPhellandren	1.61404e-007	-2.78174e-011	1.00000e+000	-0.05759	-0.27714	HC	-5810000
bPhellandren	1.62641e-007	-2.74950e-011	1.00000e+000	-0.04618	-0.27257	HC	-5810000
aTerpinene	1.43941e-007	-2.50641e-011	1.00000e+000	-0.05812	-0.27474	HC	-5800000
gTerpinene	1.76847e-007	-3.18637e-011	1.00000e+000	-0.07725	-0.27521	HC	-5810000
LMenthol	-4.90036e-010	1.20255e-011	1.00000e+000	-0.81869	-1.98995	HC	-5874000
Acebaphthlne	1.73180e-008	3.72974e-012	1.00000e+000	0.21936	0.11556	HC	-5875900
26DMNaphthal	8.72328e-008	-1.25084e-011	1.00000e+000	-0.30531	-0.69024	HC	-6167600
BiCycloHexyl	3.37297e-008	2.02278e-012	1.00000e+000	-0.56761	-1.03970	HC	-7053000
Fluorene	3.94506e-008	6.07330e-013	1.00000e+000	-0.21318	-0.41975	HC	-6425100
DiPhenylC2#	5.48772e-008	-2.82631e-012	1.00000e+000	-0.12781	-0.48409	HC	-7148360
11DiPHEthane	1.35483e-007	-2.05479e-011	1.00000e+000	-0.39517	-0.80347	HC	-7250000
1PHIndene	1.72186e-008	6.16584e-012	1.00000e+000	-0.17229	-0.51592	HC	-7530000
1nHxNaphthal	1.30947e-007	-1.82088e-011	1.00000e+000	-0.40450	-0.87529	HC	-8647990
1C61234THyNa	1.65667e-007	-2.47695e-011	1.00000e+000	-0.00802	-0.41561	HC	-9010000
24DiPH4MC5=1	2.16543e-007	-3.48720e-011	1.00000e+000	-0.12658	-0.73620	HC	-9580000
23MDiPHC4	2.21580e-007	-3.51359e-011	1.00000e+000	0.07047	-0.56056	HC	-9799980
1nC9Naphthal	1.23893e-007	-1.57010e-011	1.00000e+000	-0.06847	-0.42965	HC	-10500000
TriPHC2=	1.93089e-007	-3.02883e-011	1.00000e+000	-0.05898	-0.60222	HC	-10000000
112TriPHC2	1.80814e-007	-2.68721e-011	1.00000e+000	0.04834	-0.61868	HC	-10177000
1C10Naphthal	1.39435e-007	-1.83242e-011	1.00000e+000	-0.26753	-0.78461	HC	-11100000
AllylAlcohol	1.33111e-008	2.93229e-026	1.00000e+000	-0.08333	-0.76090	Alcohol	-1731920
Propargyl-ol	4.76988e-009	3.03263e-013	1.00000e+000	-0.60105	-1.33192	Alcohol	-1656900
2-Hexanol	1.35645e-008	-4.63852e-021	1.00000e+000	-0.00972	-0.57524	Alcohol	
2-E-1-C4ol	2.37488e-008	2.57931e-025	1.00000e+000	-0.42480	-1.63820	Alcohol	-3671400
4-M-2-C5ol	2.04427e-008	-4.95228e-025	1.00000e+000	-0.01539	-0.52230	Alcohol	-3661290
2-M-1-C5ol	1.86741e-008	-3.19835e-025	1.00000e+000	-0.02486	-0.62796	Alcohol	-3673400
1-M-CC6ol	1.34279e-008	0.00000e+000	1.00000e+000	-0.34215	-1.92586	Alcohol	-4057800
ci2-M-CC6ol	1.47015e-008	2.19071e-025	1.00000e+000	-1.82351	-3.66861	Alcohol	-4057400
tr2-M-CC6ol	1.47015e-008	2.19071e-025	1.00000e+000	-2.17384	-4.28212	Alcohol	-4031790
ci3-M-CC6ol	1.47015e-008	2.19071e-025	1.00000e+000	-0.10260	-1.39005	Alcohol	-4031390
tr3-M-CC6ol	1.47015e-008	2.19071e-025	1.00000e+000	-0.73171	-2.27724	Alcohol	-4053200
ci4-M-CC6ol	1.47015e-008	2.19071e-025	1.00000e+000	-0.35150	-1.77663	Alcohol	-4034400
tr4-M-CC6ol	1.47015e-008	2.19071e-025	1.00000e+000	-0.28595	-1.77830	Alcohol	-4014300
1-Octanol	1.56673e-008	-1.31500e-026	1.00000e+000	-0.49849	-1.45061	Alcohol	-4899460
2-Octanol	2.26743e-008	2.49849e-025	1.00000e+000	-1.22011	-2.38032	Alcohol	-4870000
4-M-3-C7ol	5.04816e-008	2.10400e-025	1.00000e+000	-0.00885	-0.50463	Alcohol	-7953010
5-M-3-C7ol	5.04816e-008	2.10400e-025	1.00000e+000	-0.01031	-0.54500	Alcohol	
2-E-1-C6ol	3.21458e-008	-9.20498e-026	1.00000e+000	-0.33041	-1.31587	Alcohol	-4892080

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
1-Nonanol	625	144.257	670.00	26.30000	0.54600	0.58516	0.59355	0.59355
1-Decanol	626	158.285	687.00	22.20000	0.60000	0.64889	0.61334	0.61334
i-Decanol	627	158.283	644.00	22.80000	0.59100	0.70117	0.91298	0.91298
1-Undecanol	628	172.311	704.00	20.80000	0.64300	0.70125	0.58723	0.58723
1-Dodecanol	629	186.339	679.00	19.10000	0.71798	0.82827	0.95420	1.12557
1-Tridecanol	630	200.365	720.00	18.10000	0.74900	0.84113	0.62716	0.62716
1-Ttrdecanol	631	214.391	740.00	17.00000	0.80198	0.92268	0.67654	0.67654
1-Hxadecanol	632	242.445	750.00	15.00000	0.90700	1.08053	0.74800	0.74800
1-Hptdecanol	633	256.471	735.00	13.00000	0.10180	1.14900	1.11846	0.79492
1-Octdecanol	634	270.501	777.00	13.90000	1.00996	1.25601	1.15900	0.86343
1-Eicosanol	635	298.553	770.00	11.00000	0.12099	1.42242	1.14049	0.93681
DMPHCarbinol	636	136.190	701.83	36.78100	0.40435	0.45235	0.40124	0.40124
12-C3diol	637	76.096	625.00	60.70000	0.23700	0.28288	1.10651	1.10651
13-C3diol	638	76.096	657.00	59.20000	0.21694	0.20574	1.16647	0.01152
Glycerol	639	92.095	725.00	66.70000	0.25499	0.41190	1.50838	1.98450
ci214C4=diol	640	88.106	670.00	52.00000	0.27900	0.33245	1.17358	1.17358
tr214C4=diol	641	88.106	681.00	52.00000	0.27900	0.31732	1.17360	1.17360
12-C4diol	642	90.150	618.30	49.73300	0.29750	0.35261	1.21796	1.17227
13-C4diol	643	90.122	642.00	50.00000	0.29199	0.35271	1.14563	1.14563
14-C4diol	644	90.122	667.00	48.70000	0.29699	0.36028	1.18921	1.18921
23-C4diol	645	90.120	607.63	49.73300	0.29750	0.34985	1.13311	1.17227
12-C5diol	646	104.150	636.31	43.62600	0.35350	0.42636	1.13584	1.20875
14-C5diol	647	104.150	654.78	44.09100	0.34750	0.42183	1.17252	1.17252
15-C5diol	648	104.149	672.00	41.50000	0.34498	0.42866	1.21991	1.21991
124-C4triol	649	106.120	725.28	57.56600	0.31050	0.53022	1.69356	1.69356
Erythritol	650	122.120	750.68	67.40700	0.32350	0.79339	2.19341	2.19341
Penterytrito	651	136.147	780.00	47.80000	0.38100	0.64279	2.17276	2.17276
Hydroquinone	652	110.111	822.00	74.50000	0.30000	0.40636	0.68610	0.68610
123-BZtriol	653	126.111	830.00	88.00000	0.31799	0.56559	0.94458	0.94458
16-C6diol	654	118.176	670.00	36.10000	0.39800	0.50097	1.26750	1.25000
2-M24-C5diol	655	118.176	621.00	40.10000	0.39800	0.60895	1.19690	1.19690
THyFurfurol	656	102.133	637.00	46.60000	0.28999	0.33191	0.70248	0.70248
Furfurol	657	98.100	632.00	53.50000	0.26300	0.28593	0.73536	0.58868
Tri-M-ol-C3	658	134.175	709.00	39.10000	0.41600	0.56926	1.54305	1.54305
TtrC2=Glycol	659	194.227	722.00	25.80000	0.56400	0.56796	1.57825	0.46260
Sorbitol	660	182.173	868.00	46.40000	0.48300	0.61747	2.21305	2.21305
diAcetone-ol	661	116.160	606.00	36.00000	0.38699	0.42254	0.75650	0.75650
Cellosolve	662	90.122	567.00	42.30000	0.29400	0.32357	0.75910	0.75910
M-Cellosolve	663	76.095	562.00	50.10000	0.24200	0.26021	0.73110	0.73110
B-Cellosolve	664	118.176	600.00	32.20000	0.40000	0.45470	0.81740	0.81740
B-Carbitol	665	162.229	654.00	25.60000	0.52600	0.62638	0.93150	0.93150
Butoxy3Glycl	666	206.279	700.67	21.89700	0.66850	0.83461	1.10801	1.10801
Acetol	667	74.079	596.00	57.40000	0.22800	0.23452	0.77358	0.77358
2C4#14Diol	668	86.090	695.00	58.60000	0.25600	0.30923	1.13426	1.13426
2M1C3ol	669	74.123	547.78	43.00000	0.27300	0.29000	0.58482	0.58482
NeoC5Glycol	670	104.149	643.00	42.40000	0.34500	0.43156	1.14311	1.14311
12BZdiol	671	110.111	764.00	74.90000	0.30000	0.31160	0.69373	0.69373
13BZdiol	672	110.111	810.00	74.90000	0.30000	0.30539	0.67668	0.67668

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
1-Nonanol	486.70	830.63	11.52	0.00000e+000	1.28078e+000	4.41138e-001	-1.59805e-004
1-Decanol	506.10	831.95	11.65	0.00000e+000	1.45796e+001	4.47630e-001	-1.30785e-004
i-Decanol	492.00	827.98	11.60	0.00000e+000	-1.16800e+001	5.17913e-001	-2.04728e-004
1-Undecanol	518.15	836.91	11.67	0.00000e+000	-3.30212e+000	5.55017e-001	-2.15585e-004
1-Dodecanol	533.10	831.26	11.87	0.00000e+000	9.22991e+000	5.51865e-001	-1.78048e-004
1-Tridecanol	547.15	828.71	12.01	0.00000e+000	-5.32240e+000	6.53685e-001	-2.56189e-004
1-Ttrdecanol	560.15	823.26	12.18	0.00000e+000	-6.35241e+000	7.02701e-001	-2.75975e-004
1-Hxadecanol	585.15	818.01	12.44	0.00000e+000	5.07898e+001	6.76402e-001	-2.13092e-004
1-Hptdecanol	597.00	819.17	12.50	0.00000e+000	-7.79710e+000	8.27029e-001	-3.11700e-004
1-Octdecanol	607.00	810.96	12.70	0.00000e+000	-8.70970e+000	8.74576e-001	-3.29576e-004
1-Eicosanol	627.00	815.95	12.76	0.00000e+000	-1.25873e+001	9.75632e-001	-3.72902e-004
DMPHCarbinol	475.17	971.54	9.77	3.81079e+004	-8.79663e+001	3.95973e-001	-1.01678e-004
12-C3diol	460.50	1040.18	9.03	0.00000e+000	6.32411e-001	2.10740e-001	-9.94308e-005
13-C3diol	487.60	1060.77	9.03	0.00000e+000	8.27316e+000	1.83920e-001	-7.21145e-005
Glycerol	562.00	1260.78	7.96	0.00000e+000	8.42960e+000	2.22246e-001	-1.05369e-004
ci214C4=diol	510.00	1079.30	9.01	0.00000e+000	1.67339e+001	1.79503e-001	-5.11418e-005
tr214C4=diol	510.00	1065.40	9.12	0.00000e+000	5.16095e+000	2.22897e-001	-1.28722e-004
12-C4diol	463.65	1006.94	9.35	-8.50963e-005	9.83699e+000	2.25969e-001	-8.48929e-005
13-C4diol	480.15	1011.15	9.42	0.00000e+000	1.08532e+001	2.32901e-001	-9.41975e-005
14-C4diol	501.15	1017.46	9.50	0.00000e+000	4.86257e+000	2.39374e-001	-9.92804e-005
23-C4diol	455.65	1007.96	9.29	-8.50680e-005	9.83371e+000	2.25894e-001	-8.48647e-005
12-C5diol	483.15	984.41	9.70	-5.80820e-005	8.92511e+000	2.73403e-001	-1.03001e-004
14-C5diol	494.85	992.33	9.70	-4.46915e-005	7.24309e+000	2.76362e-001	-1.04068e-004
15-C5diol	512.15	1002.01	9.71	0.00000e+000	5.37997e+000	2.80611e-001	-1.10840e-004
124-C4triol	567.02	1021.46	9.86	-7.68234e-005	1.34428e+001	2.45847e-001	-9.60652e-005
Erythritol	603.15	1023.28	10.04	-7.51756e-005	1.70519e+001	2.65797e-001	-1.07266e-004
Penterytrito	631.00	881.31	11.84	0.00000e+000	7.66785e+000	3.40445e-001	-1.52885e-004
Hydroquinone	558.15	985.71	10.16	0.00000e+000	-2.59091e+001	3.39748e-001	-2.29158e-004
123-BZtriol	581.85	884.64	11.48	0.00000e+000	-2.64467e+001	3.87495e-001	-2.69319e-004
16-C6diol	516.15	988.19	9.87	0.00000e+000	-1.48244e+000	3.45748e-001	-1.53357e-004
2-M24-C5diol	470.65	771.99	12.26	0.00000e+000	-1.81365e+001	3.86781e-001	-1.79464e-004
THyFurfurol	451.15	1055.56	8.84	3.16810e+004	-2.59426e+001	3.42768e-001	-2.00657e-004
Furfurol	443.10	1134.86	8.17	1.32958e-005	-6.67429e+000	2.75067e-001	-1.63256e-004
Tri-M-ol-C3	562.04	1119.38	8.97	0.00000e+000	-1.53322e+001	4.17692e-001	-2.20396e-004
TtrC2=Glycol	581.00	1130.27	8.98	1.19596e+004	1.51536e+001	4.80477e-001	-2.08557e-004
Sorbitol	704.00	1404.19	7.71	0.00000e+000	-1.93921e+001	5.59914e-001	-3.78945e-004
diAcetone-ol	441.00	942.35	9.83	1.04978e+004	1.06246e+001	3.03432e-001	-1.37721e-004
Cellosolve	408.15	934.72	9.65	1.39909e-005	5.91805e-001	2.42428e-001	-9.78617e-005
M-Cellosolve	397.55	970.35	9.22	1.56168e-005	1.17578e+001	1.72628e-001	-5.86479e-005
B-Cellosolve	444.47	904.23	10.27	6.68886e-005	-2.27365e+001	4.07224e-001	-2.39572e-004
B-Carbitol	504.15	960.24	10.08	6.32528e-006	-1.46453e+001	4.90759e-001	-2.29559e-004
Butoxy3Glycl	551.15	992.58	10.05	-1.85372e-004	7.55879e+001	3.99102e-001	-7.25318e-005
Acetol	418.65	1082.43	8.41	0.00000e+000	3.02382e+001	8.73409e-002	4.03358e-005
2C4#14Diol	511.15	1028.92	9.45	0.00000e+000	2.90634e+001	1.47172e-001	-4.29888e-005
2M1C3ol	380.81	805.46	10.95	0.00000e+000	1.16887e+001	1.77901e-001	-1.82538e-005
NeoC5Glycol	483.00	800.20	11.93	0.00000e+000	-1.37227e+001	3.36221e-001	-1.69126e-004
12BZdiol	518.65	1155.89	8.46	0.00000e+000	-2.41405e+001	3.07994e-001	-1.59963e-004
13BZdiol	549.65	1176.69	8.47	0.00000e+000	-3.08602e+001	3.51359e-001	-2.34547e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
1-Nonanol	2.45178e-008	-2.47626e-025	1.00000e+000	-0.63516	-1.61096	Alcohol	-5500600
1-Decanol	8.63302e-009	3.19654e-026	1.00000e+000	-0.18806	-1.06417	Alcohol	-6117000
i-Decanol	3.61590e-008	-4.31528e-025	1.00000e+000	-0.58732	-1.80780	Alcohol	-6110000
1-Undecanol	3.49845e-008	2.78383e-025	1.00000e+000	-0.44534	-1.37343	Alcohol	-6739110
1-Dodecanol	1.94598e-008	-7.52617e-026	1.00000e+000	-0.17666	-1.13214	Alcohol	-7337000
1-Tridecanol	4.18404e-008	4.24866e-025	1.00000e+000	-0.86789	-1.91612	Alcohol	-7953010
1-Ttrdecanol	4.50592e-008	-6.06143e-025	1.00000e+000	-0.87321	-1.93850	Alcohol	-8562730
1-Hxadecanol	2.24603e-008	6.85459e-025	1.00000e+000	-1.04718	-2.07679	Alcohol	-9797010
1-Hptdecanol	5.11319e-008	8.28703e-025	1.00000e+000	-0.25709	-1.73134	Alcohol	-10396500
1-Octdecanol	5.39595e-008	-5.73586e-025	1.00000e+000	-0.35914	-1.83773	Alcohol	-10997500
1-Eicosanol	6.29404e-008	2.71315e-025	1.00000e+000	-0.38457	-1.88555	Alcohol	-12215800
DMPHCarbinol	1.66164e-021	3.85047e-025	1.00000e+000	0.43203	0.46988	Alcohol	-4690000
12-C3diol	2.23921e-008	3.84187e-026	1.00000e+000	-0.11761	-1.40541	Alcohol	-1647500
13-C3diol	1.26404e-008	-1.92093e-025	1.00000e+000	-0.21468	-1.36117	Alcohol	-1683000
Glycerol	2.34600e-008	-2.78977e-025	1.00000e+000	0.16933	-1.23877	Alcohol	-1476950
ci214C4=diol	2.70529e-009	-7.56199e-026	1.00000e+000	-0.30812	-1.30812	Alcohol	-2169990
tr214C4=diol	6.86477e-008	-2.14782e-011	1.00000e+000	0.55236	0.43730	Alcohol	-2160000
12-C4diol	1.40041e-008	1.04795e-018	1.00000e+000	0.03492	-0.69959	Alcohol	
13-C4diol	1.71373e-008	-3.36701e-025	1.00000e+000	-0.34920	-1.86354	Alcohol	-2268400
14-C4diol	1.89450e-008	5.46001e-026	1.00000e+000	-0.03469	-0.91957	Alcohol	-2280050
23-C4diol	1.39994e-008	1.04760e-018	1.00000e+000	0.03085	-0.66951	Alcohol	
12-C5diol	1.69749e-008	7.08928e-019	1.00000e+000	0.03487	-0.66988	Alcohol	-2887300
14-C5diol	1.68499e-008	5.49657e-019	1.00000e+000	0.03644	-0.68650	Alcohol	-163880
15-C5diol	1.96249e-008	-2.10327e-025	1.00000e+000	-0.11342	-1.49670	Alcohol	-2887300
124-C4triol	1.63244e-008	9.38105e-019	1.00000e+000	0.13170	-0.78824	Alcohol	
Erythritol	1.86494e-008	9.23744e-019	1.00000e+000	0.25359	-0.78549	Alcohol	
Penterytrito	3.44577e-008	-2.68399e-012	1.00000e+000	0.69942	0.45897	Alcohol	-2498100
Hydroquinone	9.17301e-008	-1.59874e-011	1.00000e+000	-0.43863	-2.27273	Alcohol	-2740000
123-BZtriol	1.05787e-007	-1.77527e-011	1.00000e+000	-0.02933	-1.61775	Alcohol	-2540000
16-C6diol	3.83094e-008	-3.88972e-012	1.00000e+000	-1.33991	-3.01635	Alcohol	-3484100
2-M24-C5diol	3.77997e-008	-3.46049e-025	1.00000e+000	0.00185	-1.02945	Alcohol	-3451000
THyFurfurol	7.27245e-008	-1.19130e-011	1.00000e+000	-0.93453	-1.88390	Alcohol	
Furfurol	5.66608e-008	-8.70710e-012	1.00000e+000	-0.29423	-1.10986	Alcohol	
Tri-M-ol-C3	6.88025e-008	-9.39625e-012	1.00000e+000	-0.03617	-1.13232	Alcohol	-3413600
TtrC2=Glycol	5.08949e-008	-5.94750e-012	1.00000e+000	-0.66921	-1.73836	Alcohol	
Sorbitol	1.51512e-007	-2.51923e-011	1.00000e+000	0.63734	0.43736	Alcohol	-2914660
diAcetone-ol	4.57360e-008	-1.00474e-011	1.00000e+000	-0.01748	-0.92093	Alcohol	
Cellosolve	1.93686e-008	-1.27252e-012	1.00000e+000	-0.26748	-1.24802	Alcohol	-2330000
M-Cellosolve	7.29181e-009	3.34411e-013	1.00000e+000	-0.32199	-1.22649	Alcohol	-1660000
B-Cellosolve	9.97677e-008	-2.10284e-011	1.00000e+000	-0.23576	-1.21791	Alcohol	-3550000
B-Carbitol	6.23670e-008	-7.78140e-012	1.00000e+000	-0.58860	-1.42674	Alcohol	-4639990
Butoxy3Glycl	-1.16998e-008	2.28209e-018	1.00000e+000	0.53915	0.40970	Alcohol	
Acetol	-6.05495e-008	1.94129e-011	1.00000e+000	-0.64680	-1.84307	Alcohol	-1490000
2C4#14Diol	-3.12246e-009	3.76454e-012	1.00000e+000	0.57292	0.45244	Alcohol	-2049990
2M1C3ol	-3.30276e-008	1.28592e-011	1.00000e+000	-0.23284	-1.41595	Alcohol	-2448980
NeoC5Glycol	5.14670e-008	-7.65682e-012	1.00000e+000	-1.01548	-2.11294	Alcohol	-2868000
12BZdiol	4.09813e-008	-3.47409e-012	1.00000e+000	-0.35578	-1.04191	Alcohol	-2733000
13BZdiol	9.08160e-008	-1.51515e-011	1.00000e+000	-0.53232	-1.45264	Alcohol	-2719000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
HexGlycol	673	118.176	621.00	40.10000	0.39800	0.50126	1.15796	1.15796
DiC3=Glycol	674	134.175	654.00	35.80000	0.41500	0.52999	1.19769	1.19769
5M1C6ol	675	116.203	605.00	30.30000	0.43200	0.49134	0.78072	0.78072
2PHEthanol	676	122.166	684.00	39.20000	0.38700	0.42211	0.74293	0.74293
2PH2C3ol	677	136.194	660.00	34.90000	0.44000	0.45731	0.69752	0.69752
2-C9ol	678	144.257	623.00	24.80000	0.53800	0.62870	0.89038	0.89038
1C15ol	679	228.417	752.00	16.00000	0.85400	0.95335	0.70928	0.70928
1C19ol	680	284.526	784.00	13.00000	1.07000	1.24109	0.89749	0.89749
Glyoxal	681	58.037	495.00	58.70000	0.16400	0.14653	0.41328	0.41328
Acrolein	682	56.064	506.00	51.60000	0.19200	0.18994	0.33000	0.33000
tr-Crotonal	683	70.091	571.00	42.50000	0.25000	0.24526	0.34553	0.34553
Methacrolein	684	70.091	520.00	42.50000	0.25000	0.23488	0.24560	0.24560
n-Hexanal	685	100.161	577.00	31.10000	0.36899	0.37867	0.43898	0.43898
SalicylAl	686	122.123	670.00	49.80000	0.34200	0.35589	0.62597	0.62597
n-Heptanal	687	114.188	602.00	27.00000	0.42100	0.44082	0.48651	0.48651
p-Tolual	688	120.151	697.00	36.70000	0.41600	0.38534	0.44216	0.44216
2-E-C6al	689	128.214	607.00	25.80000	0.49099	0.49759	0.51950	0.51950
n-Octanal	690	128.210	621.10	27.30000	0.50050	0.50571	0.54800	0.54800
n-Nonanal	691	142.240	640.00	23.30000	0.52700	0.57282	0.59197	0.59197
n-Decanal	692	156.268	657.00	21.50000	0.57999	0.64134	0.64156	0.64156
n-Dodecanal	693	184.322	685.00	18.60000	0.68500	0.78631	0.75384	0.75384
Furfural	694	96.086	657.00	55.12100	0.25200	0.26736	0.44420	0.38470
2MC3al	695	72.107	507.00	41.00000	0.26300	0.26201	0.36218	0.36218
pHydroxyBZal	696	122.123	844.00	49.90000	0.36100	0.34763	0.61724	0.61724
2MC6al	697	114.188	593.00	28.50000	0.43400	0.43429	0.46374	0.46374
3MC6al	698	114.188	593.00	28.50000	0.43400	0.43407	0.46402	0.46402
1Octanal	699	128.214	621.00	25.50000	0.47400	0.50668	0.54711	0.54711
1Undecanal	700	170.294	672.00	20.00000	0.63200	0.71272	0.69659	0.69659
1Tridecanal	701	198.348	700.00	17.40000	0.73800	0.85919	0.78508	0.78508
Cl-F5-C3one	702	182.475	410.60	28.80000	0.31000	0.31700	0.34700	0.34700
perF-C3one	703	166.020	357.10	28.30000	0.32899	0.31920	0.36500	0.36500
Ketene	704	42.038	370.00	65.00000	0.14496	0.14496	0.20995	0.09670
M-C2=one	705	70.090	560.92	47.68100	0.26642	0.23520	0.23235	0.23235
F6-AcetC3one	706	208.059	485.10	27.60000	0.39100	0.39653	0.27799	0.27799
CC5one	707	84.118	634.60	51.10000	0.26800	0.26859	0.26399	0.29490
M-n-P-Ketone	708	86.134	561.10	36.70000	0.30098	0.31880	0.34599	0.34599
M-iP-Ketone	709	86.134	553.40	38.50000	0.31000	0.31560	0.34999	0.33230
diE-Ketone	710	86.134	561.00	37.20000	0.33599	0.30340	0.34400	0.34650
CC6one	711	98.145	627.00	39.00000	0.33300	0.32710	0.44800	0.44089
E-P-Ketone	712	100.160	582.80	33.20000	0.37500	0.37523	0.37799	0.37799
M-B-Ketone	713	100.160	587.00	33.20000	0.37500	0.37608	0.39199	0.39199
M-i-B-Ketone	714	100.160	571.00	32.70000	0.37500	0.37580	0.38499	0.37430
M-Pentyl-one	715	114.188	611.50	34.20000	0.41999	0.50356	0.48300	0.48300
M-PH-Ketone	716	120.151	714.00	40.60000	0.37599	0.37920	0.36059	0.41999
diB-Ketone	717	142.242	640.00	23.20000	0.57999	0.55944	0.51599	0.51599
Acetyl-one	718	100.111	602.00	39.60000	0.32300	0.32462	0.49592	0.49592
Mesityloxide	719	98.145	600.00	34.10000	0.35499	0.34577	0.32666	0.32666
5-M-2-C6one	720	114.188	601.00	29.60000	0.42100	0.43678	0.43439	0.43439

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
HexGlycol	470.65	925.77	10.22	0.00000e+000	-3.34777e+001	4.51906e-001	-2.77487e-004
DiC3=Glycol	504.95	1026.20	9.44	0.00000e+000	-3.39877e+001	4.80674e-001	-3.09416e-004
5M1C6ol	445.15	812.06	11.44	0.00000e+000	4.82596e+000	3.26099e-001	-7.29741e-005
2PHEthanol	492.05	1024.93	9.37	0.00000e+000	-4.50925e+001	3.96459e-001	-2.16299e-004
2PH2C3ol	475.15	981.55	9.67	0.00000e+000	-3.94288e+001	4.20944e-001	-1.86853e-004
2-C9ol	471.65	826.79	11.45	0.00000e+000	-1.01234e+001	4.71905e-001	-1.79721e-004
1C15ol	573.15	822.84	12.28	0.00000e+000	3.02038e+001	6.12224e-001	-7.68500e-005
1C19ol	618.15	816.66	12.69	0.00000e+000	3.42564e+001	7.79843e-001	-1.09978e-004
Glyoxal	323.55	1146.18	7.29	0.00000e+000	2.82586e+001	4.33394e-002	1.21076e-005
Acrolein	326.00	844.32	9.92	0.00000e+000	1.19774e+001	1.05369e-001	-3.57230e-005
tr-Crotonal	377.25	857.21	10.25	0.00000e+000	1.09181e+001	1.63312e-001	-4.72463e-005
Methacrolein	341.15	850.90	9.99	0.00000e+000	-1.34062e+001	1.72946e-001	-4.03765e-005
n-Hexanal	401.45	817.01	10.98	0.00000e+000	4.10359e+001	2.08369e-001	-4.16520e-005
SalicylAl	469.65	1171.40	8.07	0.00000e+000	-2.32130e+001	3.21538e-001	-1.43118e-004
n-Heptanal	425.95	821.01	11.15	0.00000e+000	4.13703e+001	2.54841e-001	-5.94205e-005
p-Tolual	477.15	1016.34	9.35	0.00000e+000	-3.37420e+001	3.42159e-001	-1.67901e-004
2-E-C6al	433.80	825.83	11.15	0.00000e+000	-1.57894e+001	3.99998e-001	-1.56815e-004
n-Octanal	444.90	824.79	11.26	7.75442e-007	1.05650e+001	3.61078e-001	-1.27326e-004
n-Nonanal	468.15	825.28	11.45	0.00000e+000	4.20959e+001	3.47645e-001	-9.48257e-005
n-Decanal	488.15	827.75	11.57	0.00000e+000	1.31768e+002	2.23787e-001	1.58365e-005
n-Dodecanal	523.15	833.32	11.76	0.00000e+000	9.53614e+000	5.48246e-001	-2.00802e-004
Furfural	434.85	1153.94	7.99	0.00000e+000	1.65978e+001	1.38487e-001	1.93548e-005
2MC3al	337.25	794.12	10.66	0.00000e+000	5.57058e+000	1.76274e-001	-3.80965e-005
pHydroxyBZal	583.15	1139.44	8.92	0.00000e+000	-1.46743e+001	3.01426e-001	-1.17489e-004
2MC6al	416.00	823.79	11.02	0.00000e+000	-2.16417e+001	3.70611e-001	-1.60996e-004
3MC6al	416.00	824.27	11.02	0.00000e+000	7.95160e+000	3.24633e-001	-1.22983e-004
1Octanal	447.15	822.98	11.30	0.00000e+000	9.72957e+001	1.01642e-001	2.30942e-004
1Undecanal	506.15	830.28	11.68	0.00000e+000	7.92070e-001	5.32038e-001	-2.28334e-004
1Tridecanal	540.15	833.52	11.89	0.00000e+000	-1.88692e+000	6.26153e-001	-2.58820e-004
Cl-F5-C3one	281.00	1513.18	5.27	0.00000e+000	-1.68642e+000	2.70519e-001	-1.49466e-004
perF-C3one	245.70	1368.50	5.57	0.00000e+000	-8.50164e+000	2.73302e-001	-1.49159e-004
Ketene	232.00	678.91	11.01	0.00000e+000	6.38839e+000	8.19525e-002	-3.61562e-005
M-C2=one	354.55	863.60	9.97	0.00000e+000	-1.75882e+001	1.82670e-001	-4.88592e-005
F6-AcetC3one	327.30	1456.43	5.76	0.00000e+000	-2.65629e+000	3.61490e-001	-1.88697e-004
CC5one	403.90	953.89	9.43	0.00000e+000	-4.06414e+001	2.62922e-001	-1.04201e-004
M-n-P-Ketone	375.40	805.00	10.90	0.00000e+000	1.14775e+000	2.40260e-001	-9.39937e-005
M-iP-Ketone	367.50	814.22	10.70	0.00000e+000	-2.91594e+000	2.49715e-001	-9.78956e-005
diE-Ketone	375.10	818.62	10.72	0.00000e+000	3.00298e+001	1.97082e-001	-6.36069e-005
CC6one	428.80	950.33	9.65	0.00000e+000	-3.78347e+001	2.77111e-001	-6.51415e-005
E-P-Ketone	396.60	813.00	10.99	0.00000e+000	1.42448e+001	2.67364e-001	-9.67268e-005
M-B-Ketone	400.70	815.00	11.00	0.00000e+000	1.42448e+001	2.67364e-001	-9.67268e-005
M-i-B-Ketone	389.60	804.98	11.04	0.00000e+000	3.89658e+000	2.82986e-001	-1.10668e-004
M-Pentyl-one	424.20	721.12	12.68	0.00000e+000	4.91464e+001	2.37642e-001	-4.84676e-005
M-PH-Ketone	474.90	1032.00	9.20	0.00000e+000	-2.95991e+001	3.20713e-001	-1.35786e-004
diB-Ketone	461.60	827.00	11.37	0.00000e+000	1.91984e+001	4.01524e-001	-1.46839e-004
Acetyl-one	413.55	979.39	9.25	0.00000e+000	6.06207e+000	2.12154e-001	-6.96154e-005
Mesityloxide	402.95	860.63	10.44	0.00000e+000	3.10607e+001	2.38820e-001	-9.62720e-005
5-M-2-C6one	417.95	816.10	11.14	0.00000e+000	1.78090e+000	3.31245e-001	-1.26615e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
HexGlycol	1.05597e-007	-1.78295e-011	1.00000e+000	-0.90678	-2.46917	Alcohol	-3451000
DiC3=Glycol	1.27326e-007	-2.40494e-011	1.00000e+000	-0.91311	-2.40949	Alcohol	-3340000
5M1C6ol	-2.80498e-008	1.47745e-011	1.00000e+000	-0.38416	-1.49293	Alcohol	-4290000
2PHEthanol	7.22465e-008	-1.16090e-011	1.00000e+000	-1.10062	-1.97537	Alcohol	-4180000
2PH2C3ol	3.34706e-008	1.60607e-012	1.00000e+000	-1.44402	-2.49266	Alcohol	-4690000
2-C9ol	1.98030e-008	6.19770e-012	1.00000e+000	-0.16060	-1.23720	Alcohol	-5490000
1C15ol	-1.04083e-007	3.86868e-011	1.00000e+000	-0.95421	-2.04899	Alcohol	-9114200
1C19ol	-1.26096e-007	4.83586e-011	1.00000e+000	-1.00299	-2.20356	Alcohol	-11530000
Glyoxal	-1.22641e-008	3.70658e-025	1.00000e+000	0.23576	-0.17136	Aldehyde	-782535
Acrolein	4.76801e-009	-1.38694e-025	1.00000e+000	0.02528	-0.18218	Aldehyde	-1553500
tr-Crotonal	5.19622e-009	-1.20316e-025	1.00000e+000	0.02021	-0.15162	Aldehyde	-2155550
Methacrolein	-1.13386e-009	-1.20316e-025	1.00000e+000	0.06000	-0.20178	Aldehyde	-2150000
n-Hexanal	-1.16534e-009	3.43865e-025	1.00000e+000	0.27516	-0.08095	Aldehyde	-3521750
SalicylAl	2.59779e-008	-3.63773e-025	1.00000e+000	-0.06362	-0.46509	Aldehyde	-3200000
n-Heptanal	1.45973e-009	5.64972e-025	1.00000e+000	0.33173	-0.04175	Aldehyde	-4136000
p-Tolual	3.88006e-008	-1.88048e-025	1.00000e+000	0.38635	0.09991	Aldehyde	-3970000
2-E-C6al	2.72301e-008	1.16517e-025	1.00000e+000	0.28215	-0.12138	Aldehyde	-4734300
n-Octanal	1.79385e-008	-2.31633e-020	1.00000e+000	0.42487	0.43684	Aldehyde	-4745400
n-Nonanal	6.66750e-009	1.72351e-025	1.00000e+000	0.42609	0.02176	Aldehyde	-5355800
n-Decanal	-2.38853e-008	9.46742e-026	1.00000e+000	0.46465	0.05659	Aldehyde	-5964400
n-Dodecanal	3.15032e-008	-1.11671e-025	1.00000e+000	0.53223	0.11945	Aldehyde	-7181450
Furfural	-5.98736e-008	1.90285e-011	1.00000e+000	0.42340	0.10976	Aldehyde	-2249690
2MC3al	-2.18758e-008	1.25028e-011	1.00000e+000	0.17842	-0.20269	Aldehyde	-2291300
pHydroxyBZal	1.14659e-008	2.73629e-012	1.00000e+000	-1.42250	-2.22589	Aldehyde	-3317000
2MC6al	3.73659e-008	-3.18987e-012	1.00000e+000	0.32022	-0.06427	Aldehyde	-4129990
3MC6al	2.17425e-008	-8.47549e-013	1.00000e+000	0.32002	-0.06438	Aldehyde	-4129990
1Octanal	-2.08635e-007	5.40400e-011	1.00000e+000	0.38063	-0.01454	Aldehyde	-4745400
1Undecanal	5.75466e-008	-6.60399e-012	1.00000e+000	0.49103	0.07744	Aldehyde	-6570000
1Tridecanal	5.78012e-008	-5.00763e-012	1.00000e+000	0.55459	0.14108	Aldehyde	-7790000
Cl-F5-C3one	3.12530e-008	-7.83074e-026	1.00000e+000	-0.00275	-0.33564	Ketone	
perF-C3one	3.09289e-008	-1.04773e-025	1.00000e+000	0.14530	-0.57274	Ketone	278000
Ketene	6.74920e-009	1.48565e-026	1.00000e+000	0.32828	0.00891	Ketone	-967758
M-C2=one	-5.07296e-022	1.34467e-025	1.00000e+000	-0.00498	-0.18982	Ketone	
F6-AcetC3one	3.83494e-008	-1.99582e-025	1.00000e+000	0.00601	-0.27325	Ketone	278000
CC5one	1.78364e-008	-5.09622e-026	1.00000e+000	-0.04188	-0.35975	Ketone	-2697970
M-n-P-Ketone	1.66631e-008	-2.95709e-025	1.00000e+000	-0.00428	-0.34286	Ketone	
M-iP-Ketone	1.66732e-008	2.08736e-025	1.00000e+000	-0.08414	-0.32611	Ketone	-2876000
diE-Ketone	8.50063e-009	1.82644e-025	1.00000e+000	-0.01559	-0.19740	Ketone	-2880400
CC6one	-3.83748e-009	9.41456e-026	1.00000e+000	-0.15286	-0.71653	Ketone	-3298830
E-P-Ketone	3.66151e-008	-2.52839e-025	1.00000e+000	-0.00980	-0.35346	Ketone	
M-B-Ketone	3.66151e-008	-2.52839e-025	1.00000e+000	-0.01131	-0.36520	Ketone	
M-i-B-Ketone	2.05905e-008	-3.03407e-026	1.00000e+000	0.05636	-0.23871	Ketone	-3487000
M-Pentyl-one	-3.35567e-009	-1.15300e-025	1.00000e+000	0.03534	-0.27522	Ketone	-4099510
M-PH-Ketone	2.43204e-008	-1.21322e-026	1.00000e+000	-0.01275	-0.38967	Ketone	-3973000
diB-Ketone	4.89473e-008	7.61227e-025	1.00000e+000	-0.02645	-0.44229	Ketone	
Acetyl-one	8.59034e-009	-1.41521e-025	1.00000e+000	0.00620	-0.27472	Ketone	-2509990
Mesityloxide	1.95421e-008	0.00000e+000	1.00000e+000	0.08631	-0.16504	Ketone	-3331000
5-M-2-C6one	2.13966e-008	6.91803e-026	1.00000e+000	-0.11941	-0.44365	Ketone	-4099990

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
Isophorone	721	138.210	715.00	33.20000	0.45600	0.48341	0.40024	0.40024
Camphor	722	152.235	709.00	29.80000	0.46000	0.48910	0.31894	0.31894
BZ-Phenone	723	182.222	815.00	30.10000	0.59100	0.58411	0.54496	0.54496
3-Hy-2C4one	724	88.120	585.60	48.28000	0.27849	0.30006	0.79400	0.79400
M2c3=Ketone	725	84.118	566.00	38.90000	0.30200	0.28960	0.28619	0.28619
33M2C4one	726	100.161	564.00	33.20000	0.36800	0.36761	0.32979	0.32979
E2C3Ketone	727	100.161	567.00	33.20000	0.36900	0.37161	0.39115	0.39115
3M2Pentanone	728	100.161	573.00	33.20000	0.36900	0.37247	0.38539	0.38539
DiIPKetone	729	114.188	576.00	30.20000	0.41600	0.37865	0.40531	0.40531
3Heptanone	730	114.188	600.00	29.20000	0.42100	0.43802	0.47489	0.47489
4Heptanone	731	114.188	595.00	29.20000	0.42100	0.43674	0.46614	0.46614
DiisoBKetone	732	142.240	615.00	24.80000	0.52200	0.56454	0.51161	0.51161
2Nonanone	733	142.240	643.00	24.10000	0.52700	0.57082	0.57326	0.57326
2CyHxCC6one	734	180.289	756.00	27.40000	0.59500	0.62259	0.51162	0.51162
M-Mercaptan	735	48.107	470.00	72.34600	0.14496	0.15080	0.15500	0.15670
E-Mercaptan	736	62.134	499.00	54.91800	0.20700	0.20227	0.18998	0.19144
t-B-Mercapta	737	90.189	520.00	40.60000	0.30700	0.31530	0.19070	0.19070
1Pentanthiol	738	104.216	597.00	34.70000	0.35900	0.37256	0.32110	0.32110
nPMercaptan	739	76.150	536.00	45.19100	0.26300	0.30793	0.27900	0.90484
nBMercaptan	740	90.189	567.00	39.70000	0.30700	0.31404	0.27840	0.27840
2Propanthiol	741	76.160	512.00	43.50000	0.25150	0.31818	0.22300	0.97407
2Butanethiol	742	90.190	551.00	38.50000	0.30750	0.31446	0.25700	0.25700
2-M-1C3Thiol	743	90.180	557.00	39.00000	0.30750	0.31296	0.25800	0.25800
1Hexanethiol	744	118.236	622.00	30.10000	0.42550	0.43336	0.37200	0.37200
1Heptanthiol	745	132.259	645.00	27.50000	0.48150	0.49594	0.41900	0.41900
1Octanethiol	746	146.289	665.00	25.00000	0.53750	0.55944	0.46200	0.46200
1-C9-Thiol	747	160.320	686.40	24.60000	0.59350	0.62635	0.51200	0.51200
1Decanethiol	748	174.240	702.20	22.40000	0.64950	0.69336	0.55500	0.55500
1Undecathiol	749	188.369	716.50	20.50000	0.70550	0.76214	0.59600	0.59600
1Dodecathiol	750	202.399	729.80	18.80000	0.76150	0.83407	0.63600	0.63600
1Ttrdecthiol	751	230.449	753.80	16.00000	0.87350	0.97435	0.70700	0.70700
1OctadcThiol	752	286.558	795.40	11.00000	1.09748	1.26180	0.79800	0.79800
ThioNaphtene	753	134.201	754.00	41.40000	0.34900	0.40939	0.29550	0.81641
H2O2	754	34.015	730.15	216.84000	0.07770	0.07533	0.35950	0.35950
D2O	755	20.031	643.89	219.41000	0.05630	0.05653	0.36770	0.36770
Argon	756	39.948	150.71	48.63600	0.07490	0.07541	-0.00400	-0.00920
Ozone	757	47.998	261.10	55.70000	0.08890	0.10788	0.69100	0.69100
HF	758	20.006	461.00	64.70000	0.06920	0.05579	0.32899	0.32809
N2O4	759	92.011	431.15	101.32000	0.08249	0.19750	1.00740	1.00740
COS	760	60.070	378.80	61.79800	0.14200	0.14100	0.10407	0.10209
CS2	761	76.131	552.00	79.03400	0.17200	0.16899	0.10407	0.10350
diM-Sulphide	762	62.130	502.00	55.20000	0.20100	0.20227	0.19099	0.19359
diMSulfoxide	763	78.135	729.00	56.50000	0.22698	0.21840	0.20938	0.20938
diMdiSulphid	764	94.200	605.00	47.00000	0.35800	0.24867	0.23847	0.05294
M-E-Sulfide	765	76.157	532.00	42.60000	0.26300	0.25984	0.21600	0.24345
diE-Sulphide	766	90.184	557.00	39.60000	0.31799	0.31639	0.29199	0.29379
diE-diSulphd	767	122.244	642.00	35.00000	0.47200	0.38019	0.27399	0.34240
iP-M-Sulphid	768	90.180	551.00	39.00000	0.30750	0.31367	0.25900	0.25900

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
Isophorone	488.35	926.42	10.34	0.00000e+000	-4.64178e+001	4.70619e-001	-2.09376e-004
Camphor	480.57	984.20	9.68	0.00000e+000	-1.32379e+002	6.13015e-001	-2.62243e-004
BZ-Phenone	579.24	1085.13	9.35	0.00000e+000	-6.37139e+001	4.95735e-001	-2.13185e-004
3-Hy-2C4one	416.15	1004.97	9.04	0.00000e+000	-5.74260e+001	2.69539e-001	-1.25443e-004
M2c3=Ketone	371.15	855.68	10.22	0.00000e+000	-4.68938e+000	2.15426e-001	-7.59955e-005
33M2C4one	379.45	810.76	10.86	0.00000e+000	-1.92686e+001	3.09167e-001	-1.15383e-004
E2C3Ketone	386.55	816.22	10.86	0.00000e+000	4.71765e+001	1.31409e-001	1.18264e-004
3M2Pentanone	390.55	816.05	10.90	0.00000e+000	-2.15416e+001	3.15004e-001	-1.26844e-004
DiIPKetone	397.55	921.54	9.71	0.00000e+000	-6.25375e+001	4.54522e-001	-2.56061e-004
3Heptanone	421.15	822.31	11.09	0.00000e+000	5.74198e+001	1.95007e-001	3.87679e-005
4Heptanone	417.15	820.69	11.08	0.00000e+000	5.73373e+001	1.95160e-001	3.86592e-005
DiisoBKetone	441.41	808.93	11.45	0.00000e+000	-3.41382e+000	4.48267e-001	-2.00517e-004
2Nonanone	467.45	824.81	11.45	0.00000e+000	5.73536e+001	2.63022e-001	6.12532e-005
2CyHxCC6one	537.15	981.12	10.08	0.00000e+000	-1.24497e+002	5.94975e-001	-9.83695e-005
M-Mercaptan	279.10	863.19	9.21	0.00000e+000	1.32678e+001	7.28193e-002	-5.12337e-005
E-Mercaptan	308.20	836.51	9.82	0.00000e+000	1.49177e+001	1.17538e-001	-8.13617e-005
t-B-Mercapta	337.37	804.82	10.52	4.49578e-007	2.90334e+001	1.71280e-001	-2.07169e-005
1Pentanthiol	399.79	846.09	10.59	2.61251e-006	1.91377e+001	2.35383e-001	-7.10025e-005
nPMercaptan	339.20	845.93	10.03	0.00000e+000	5.42596e+000	2.26826e-001	-5.30295e-005
nBMercaptan	371.61	845.91	10.34	-3.06396e-005	1.78021e+001	1.91006e-001	-5.32567e-005
2Propanthiol	352.70	818.93	10.50	-4.09540e-006	6.63499e+000	1.81009e-001	-7.57530e-005
2Butanethiol	358.10	831.42	10.39	4.45589e-006	6.49098e+000	2.27379e-001	-9.23131e-005
2-M-1C3Thiol	361.60	838.55	10.34	-1.65316e-006	-1.37900e+000	2.46769e-001	-1.12297e-004
1Hexanethiol	425.80	846.17	10.82	6.75379e-007	1.55015e+001	2.87666e-001	-9.14565e-005
1Heptanthiol	450.10	846.23	11.02	-6.69643e-006	1.44959e+001	3.35406e-001	-1.09849e-004
1Octanethiol	472.30	846.64	11.19	-7.08719e-006	1.31309e+001	3.84067e-001	-1.29289e-004
1-C9-Thiol	492.00	847.50	11.33	-1.14312e-005	1.20480e+001	4.32038e-001	-1.48003e-004
1Decanethiol	512.40	847.34	11.49	-1.54260e-005	1.06930e+001	4.80679e-001	-1.67360e-004
1Undecathiol	530.60	847.74	11.62	1.08107e-006	9.59090e+000	5.28646e-001	-1.86032e-004
1Dodecathiol	547.80	846.15	11.76	-1.31339e-005	8.24094e+000	5.77297e-001	-2.05530e-004
1Trdecthiol	579.40	849.40	11.94	-7.25719e-006	5.88196e+000	6.73646e-001	-2.43324e-004
1OctadcThiol	633.20	849.99	12.29	-7.65305e-006	8.73993e-001	8.67193e-001	-3.19876e-004
ThioNaphtene	493.05	1218.51	7.89	2.97657e-005	-4.79967e+001	4.07575e-001	-2.70026e-004
H2O2	423.35	1453.52	6.28	1.15044e-007	3.59915e+001	4.70004e-003	2.14343e-005
D2O	374.55	1108.05	7.91	-7.22825e-008	3.32769e+001	-2.26471e-003	1.15606e-005
Argon	87.30	1370.18	3.94	0.00000e+000	2.07849e+001	-1.60563e-005	1.72214e-008
Ozone	161.85	1257.82	5.27	6.19443e-007	2.05399e+001	4.00450e-002	-2.08098e-005
HF	293.00	984.14	8.21	0.00000e+000	2.90731e+001	3.30763e-004	-6.77779e-007
N2O4	302.22	1463.43	5.58	1.03019e-007	2.88320e+001	1.15985e-001	-7.90078e-005
COS	223.00	1015.40	7.27	0.00000e+000	1.92224e+001	5.17705e-002	-3.96711e-005
CS2	319.36	1269.31	6.55	0.00000e+000	2.23442e+001	5.57130e-002	-4.70742e-005
diM-Sulphide	310.50	847.00	9.73	0.00000e+000	2.43145e+001	9.38113e-002	-2.29317e-005
diMSulfoxide	462.15	1105.43	8.51	0.00000e+000	2.80699e+001	1.21560e-001	-3.78463e-005
diMdiSulphid	382.89	1067.43	8.28	0.00000e+000	4.89062e+000	2.80203e-001	-6.59942e-005
M-E-Sulfide	339.80	837.00	10.14	0.00000e+000	1.95417e+001	1.44637e-001	-4.03251e-005
diE-Sulphide	365.30	837.00	10.39	0.00000e+000	1.35988e+001	1.98077e-001	-5.93705e-005
diE-diSulphd	427.10	997.00	9.19	0.00000e+000	2.69165e+001	2.30200e-001	-9.03905e-005
iP-M-Sulphid	357.90	833.83	10.36	-3.81007e-006	1.36188e+001	2.02489e-001	-6.98030e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
Isophorone	4.00136e-008	-1.39556e-026	1.00000e+000	-0.38343	-0.78346	Ketone	-4932940
Camphor	4.61915e-008	1.22975e-025	1.00000e+000	-0.11388	-0.92654	Ketone	-5560000
BZ-Phenone	3.78543e-008	1.83997e-025	1.00000e+000	-0.74391	-1.25434	Ketone	-6292000
3-Hy-2C4one	-5.01127e-023	2.00202e-026	1.00000e+000	-0.02665	-0.67022	Ketone	
M2c3=Ketone	5.48234e-009	2.94345e-012	1.00000e+000	-0.11459	-0.28091	Ketone	-2720000
33M2C4one	1.25972e-008	3.11909e-012	1.00000e+000	0.04028	-0.31751	Ketone	-3483700
E2C3Ketone	-1.40707e-007	4.29353e-011	1.00000e+000	-0.08868	-0.39452	Ketone	-3486000
3M2Pentanone	2.10511e-008	1.12841e-012	1.00000e+000	-0.11253	-0.43860	Ketone	-3489990
DiIPKetone	9.09078e-008	-1.46073e-011	1.00000e+000	-0.14992	-0.48313	Ketone	-4095000
3Heptanone	-7.57361e-008	2.12795e-011	1.00000e+000	-0.06243	-0.41904	Ketone	-4097990
4Heptanone	-7.57238e-008	2.12915e-011	1.00000e+000	-0.07159	-0.41726	Ketone	-4089990
DiisoBKetone	5.45582e-008	-7.17602e-012	1.00000e+000	-0.03235	-0.41695	Ketone	-5310000
2Nonanone	-1.17918e-007	3.40695e-011	1.00000e+000	-0.11806	-0.52234	Ketone	-5321200
2CyHxCC6one	-8.47622e-008	3.43232e-011	1.00000e+000	-0.60435	-1.11158	Ketone	-6750000
M-Mercaptan	1.98290e-008	-5.58618e-026	1.00000e+000	0.06051	-0.03619	Misc	-1151700
E-Mercaptan	2.56107e-008	-5.64652e-026	1.00000e+000	-0.16651	-0.34246	Misc	-1736600
t-B-Mercapta	-2.28694e-008	7.77326e-012	1.00000e+000	0.25557	-0.24741	Misc	-2939500
1Pentanthiol	1.16131e-008	-1.69007e-012	1.00000e+000	0.20298	-0.14867	Misc	-3565500
nPMercaptan	4.72424e-023	2.30676e-025	1.00000e+000	0.04229	-0.16838	Misc	
nBMercaptan	5.82299e-009	3.69853e-019	1.00000e+000	-0.05652	-0.25571	Misc	
2Propanthiol	1.47639e-008	9.69126e-020	1.00000e+000	0.35248	0.47705	Misc	-2339800
2Butanethiol	1.66877e-008	-1.03269e-019	1.00000e+000	0.37360	0.48277	Misc	
2-M-1C3Thiol	2.30662e-008	3.69328e-020	1.00000e+000	0.37318	0.48290	Misc	
1Hexanethiol	1.25364e-008	-1.57145e-020	1.00000e+000	0.39008	0.45747	Misc	
1Heptanthiol	1.56109e-008	1.48902e-019	1.00000e+000	0.39994	0.44901	Misc	
1Octanethiol	1.90983e-008	1.67397e-019	1.00000e+000	0.40687	0.44073	Misc	
1-C9-Thiol	2.23212e-008	2.65861e-019	1.00000e+000	0.42455	0.43865	Misc	
1Decanethiol	2.57494e-008	3.59350e-019	1.00000e+000	0.42890	0.42974	Misc	
1Undecathiol	2.89467e-008	-2.41891e-020	1.00000e+000	0.43345	0.42224	Misc	
1Dodecathiol	3.24666e-008	3.10996e-019	1.00000e+000	0.43796	0.41527	Misc	
1Ttrdecthiol	3.90141e-008	1.66949e-019	1.00000e+000	0.44229	0.40174	Misc	
1OctadcThiol	5.24937e-008	1.81277e-019	1.00000e+000	0.43412	0.37643	Misc	
ThioNaphtene	1.03835e-007	-1.71302e-011	1.00000e+000	0.74710	0.43533	Misc	-4309990
H2O2	-1.71030e-008	4.11546e-012	1.00000e+000	-0.80034	-0.91827	Misc	-105000
D2O	-5.62545e-009	8.94004e-013	1.00000e+000	-0.63838	-1.06998	Misc	0
Argon	2.51962e-022	-9.02544e-026	1.00000e+000	0.10857	0.81971	Misc	0
Ozone	4.24248e-009	-1.33300e-020	1.00000e+000	0.55680	0.51749	Misc	0
HF	6.26408e-010	-1.33326e-025	1.00000e+000	0.04065	-0.17711	Misc	-1959200
N2O4	2.86728e-008	-4.27039e-012	1.00000e+000	0.74078	0.52660	Misc	-9079.29
COS	1.70050e-008	-3.02527e-012	1.00000e+000	-0.37692	-0.26491	Misc	-547702.2105
CS2	2.13954e-008	-3.95327e-012	1.00000e+000	-0.16268	-0.17381	Misc	-1103547.782
diM-Sulphide	1.02539e-009	-1.19197e-025	1.00000e+000	0.03378	-0.06828	Misc	-1743970
diMSulfoxide	6.80939e-010	1.89240e-012	1.00000e+000	-0.04808	-0.35021	Misc	-1605400
diMdiSulphid	1.09088e-021	-4.75586e-025	1.00000e+000	-0.21570	-0.44661	Misc	
M-E-Sulfide	3.21943e-009	8.45885e-026	1.00000e+000	0.35054	0.48811	Misc	
diE-Sulphide	6.62651e-009	-1.27487e-025	1.00000e+000	0.06233	-0.10852	Misc	-2960500
diE-diSulphd	1.49342e-008	4.93740e-026	1.00000e+000	-0.24770	-0.21750	Misc	
iP-M-Sulphid	1.28654e-008	8.56708e-020	1.00000e+000	0.37487	0.48307	Misc	

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
M-P-Sulphide	769	90.180	562.00	38.50000	0.31350	0.31307	0.28500	0.28500
B-M-Sulphide	770	104.208	591.00	33.70000	0.36950	0.37197	0.33200	0.33200
E-P-Sulphide	771	104.208	582.00	33.70000	0.36950	0.37274	0.32900	0.32900
B-E-Sulphide	772	118.236	607.00	30.00000	0.42550	0.43332	0.37400	0.37400
iP-Sulphide	773	118.236	585.70	32.20000	0.41350	0.43372	0.31600	0.31600
P-Sulphide	774	118.236	609.70	31.60000	0.42550	0.43365	0.37600	0.37600
MPentylSulph	775	118.236	587.00	31.60000	0.42550	0.42601	0.37600	0.37600
P-diSulphide	776	150.300	672.00	27.50000	0.47950	0.49384	0.37000	0.37000
B-Sulphide	777	146.289	650.00	25.00000	0.53750	0.55156	0.39400	0.39400
B-diSulphide	778	178.350	704.20	26.10000	0.59150	0.63428	0.52900	0.52900
HexylSulphid	779	202.399	733.70	18.10000	0.76150	0.83610	0.63100	0.63100
PentylSulphd	780	174.240	700.00	21.30000	0.64950	0.69505	0.55100	0.55100
PentdiSulphd	781	206.399	726.90	21.80000	0.70350	0.77198	0.61400	0.61400
HeptylSulphd	782	230.449	762.20	15.40000	0.87350	0.98074	0.70000	0.70000
ThiaCC6	783	102.190	657.10	46.50000	0.29550	0.31205	0.22000	0.22000
ThiaCC7	784	116.220	640.10	43.70000	0.39150	0.36194	0.29100	0.29100
H2SO4	785	98.080	925.00	64.00000	0.17700	0.09753	1.91600	-2.50000
HCN	786	27.026	456.70	53.70000	0.13880	0.10792	0.38800	0.38800
HNO3	787	63.013	520.00	68.90100	0.14496	0.13222	0.71438	0.71438
Cyanogen	788	52.035	400.00	59.70000	0.14793	0.16221	0.27800	0.27800
SULFOLANE	789	120.166	818.59	52.90300	0.31400	0.31360	0.58631	0.35910
Formamide	790	45.041	770.00	77.00000	0.16300	0.13252	0.45340	0.45340
Acetamide	791	59.068	750.00	65.00000	0.21500	0.18242	0.38070	0.38070
n-M-Formamid	792	59.068	720.00	56.20000	0.21500	0.19095	0.41000	0.41000
DMF	793	73.095	647.00	44.20000	0.26699	0.24059	0.37549	0.37549
DEFormamide	794	101.150	671.52	34.56800	0.41757	0.36060	0.46310	0.46310
diMAcetamide	795	87.120	657.00	40.20000	0.32100	0.28980	0.36350	0.36350
SELEXOL	796	270.000	786.35	31.54700	0.52929	0.91022	0.44462	0.44462
BCl3	797	117.191	455.00	38.70000	0.23950	0.23003	0.14000	0.14000
SilicTrtChl	798	169.897	508.10	35.70000	0.32570	0.32116	0.23200	0.23200
Hydrazine	799	32.045	652.00	145.00000	0.10100	0.09801	0.31600	0.31600
11MHydrazine	800	60.110	508.90	57.37000	0.21750	0.22513	0.46189	0.46189
Thiazole	801	85.130	632.50	66.52000	0.21250	0.21385	0.24650	0.24650
4-M-Thiazole	802	99.150	652.50	66.20000	0.20350	0.26963	0.24986	0.24986
Phosgene	803	98.916	455.00	56.70000	0.19009	0.19221	0.20498	0.20498
Morpholine	804	87.122	617.00	54.70000	0.25299	0.26952	0.37000	0.37000
C2Anhydride	805	102.083	569.15	46.81200	0.28999	0.32291	0.84020	0.84020
MaleicAnhydr	806	98.058	721.00	72.80000	0.21900	0.24705	0.54629	0.54629
PhtlicAnhydr	807	148.117	790.00	47.20000	0.42100	0.41157	0.70840	0.70840
NitroC1	808	61.041	587.00	63.10000	0.17317	0.16087	0.31000	0.32949
NitroC2	809	75.070	594.90	51.16000	0.22946	0.21818	0.36844	0.36844
1-NitroC3	810	89.094	605.00	43.50000	0.28800	0.27549	0.41220	0.41220
2-NitroC3	811	89.094	592.00	44.50000	0.28800	0.27467	0.37610	0.37610
1-NitroC4	812	103.120	622.00	37.00000	0.34150	0.33538	0.45200	0.45200
2-NitroC4	813	103.120	615.00	36.00000	0.33550	0.32171	0.35700	0.35700
NitroBZ	814	123.000	712.00	35.00000	0.38080	0.32991	0.40180	0.39987
12-NitroBZ	815	168.108	830.00	38.50000	0.43400	0.45118	0.68740	0.68740
13-NitroBZ	816	168.108	805.00	38.50000	0.43400	0.42745	0.68170	0.68170

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
M-P-Sulphide	368.70	846.99	10.30	7.66275e-007	1.60109e+001	1.95965e-001	-6.16597e-005
B-M-Sulphide	396.60	846.77	10.56	-1.23987e-006	1.85016e+001	2.33669e-001	-6.74016e-005
E-P-Sulphide	391.70	841.24	10.58	2.31033e-006	1.57055e+001	2.35178e-001	-6.62951e-005
B-E-Sulphide	417.40	841.51	10.80	-5.60371e-006	1.43612e+001	2.83769e-001	-8.56766e-005
iP-Sulphide	393.20	818.30	10.89	-1.64436e-006	-5.05882e+000	3.62697e-001	-1.72763e-004
P-Sulphide	416.00	841.60	10.79	-3.81322e-006	1.69113e+001	2.72850e-001	-7.20071e-005
MPentylSulph	401.20	847.31	10.59	-3.76008e-006	1.71501e+001	2.82265e-001	-8.67967e-005
P-diSulphide	464.70	963.63	9.78	-3.97211e-006	2.27389e+001	3.22476e-001	-1.19603e-004
B-Sulphide	455.20	837.65	11.17	-3.32884e-006	1.45569e+001	3.69193e-001	-1.09789e-004
B-diSulphide	504.40	941.67	10.28	-5.27839e-006	2.03909e+001	4.18793e-001	-1.57360e-004
HexylSulphid	552.20	843.92	11.83	7.22765e-006	9.65895e+000	5.62396e-001	-1.85962e-004
PentylSulphd	513.20	843.94	11.54	-3.56411e-006	1.20940e+001	4.65869e-001	-1.47986e-004
PentdiSulphd	537.10	925.23	10.69	4.18136e-006	1.79219e+001	5.15442e-001	-1.95585e-004
HeptylSulphd	587.20	844.25	12.07	-4.69641e-006	7.16897e+000	6.59146e-001	-2.24248e-004
ThiaCC6	414.90	990.09	9.16	-8.26541e-006	-5.20449e+001	3.16058e-001	-1.12910e-004
ThiaCC7	414.90	982.35	9.24	-5.99591e-006	-7.05380e+001	3.63943e-001	-8.04162e-005
H2SO4	600.00	1850.81	5.54	1.48363e+003	6.83645e+000	1.78199e-001	-1.41066e-004
HCN	298.90	693.96	11.72	4.41953e-007	2.18598e+001	3.03097e-002	-1.65364e-005
HNO3	356.15	1523.64	5.66	1.14918e+003	1.39862e+001	8.56832e-002	-4.56125e-005
Cyanogen	251.00	867.52	8.85	8.85707e-007	3.59398e+001	4.62648e-002	-2.71598e-005
SULFOLANE	558.15	1266.97	7.91	-8.88677e+003	-1.95520e+001	2.62697e-001	-8.77580e-005
Formamide	492.00	1137.06	8.45	2.18493e-007	3.03439e+001	8.73138e-003	6.24494e-005
Acetamide	494.30	1058.08	9.09	1.73561e-007	1.69787e+001	7.03884e-002	3.27699e-005
n-M-Formamid	472.66	1006.96	9.41	-2.80600e-005	4.28667e+001	-4.85754e-002	2.39084e-004
DMF	426.15	953.40	9.60	6.55042e+003	1.02112e+001	1.55650e-001	-2.49320e-005
DEFormamide	450.15	910.74	10.24	2.50652e+004	-4.86592e+001	2.92724e-001	-7.42935e-005
diMAcetamide	439.25	944.69	9.79	2.83155e-006	-2.17405e+001	2.76033e-001	-1.39666e-004
SELEXOL	543.15	1030.96	9.63	0.00000e+000	-8.06031e+001	6.91824e-001	-2.00583e-004
BCl3	285.80	1336.46	6.00	1.67042e-006	3.26098e+001	6.94998e-002	-4.86995e-005
SilicTrtChl	330.80	1480.00	5.68	-1.96034e-006	5.65796e+001	8.17993e-002	-6.32324e-005
Hydrazine	386.70	1012.14	8.76	-4.28127e-007	9.76723e+000	9.47498e-002	-5.52332e-005
11MHydrazine	336.15	791.40	10.69	0.00000e+000	-1.85036e+001	1.82481e-001	-5.17146e-005
Thiazole	389.95	1199.80	7.41	4.95194e-007	1.91100e+001	8.65845e-002	2.53733e-005
4-M-Thiazole	405.85	1118.47	8.05	-1.10452e-006	3.25000e+001	1.04345e-001	1.79966e-005
Phosgene	281.00	1380.00	5.77	4.38359e-007	2.80891e+001	6.80499e-002	-4.57996e-005
Morpholine	401.40	1000.00	8.97	1.26791e-006	-4.27995e+001	2.69398e-001	-8.88653e-005
C2Anhydride	411.78	1086.56	8.33	8.34052e+003	-1.17934e+001	2.30891e-001	-1.01086e-004
MaleicAnhydr	475.15	1322.93	7.18	0.00000e+000	-8.80926e+001	5.85613e-001	-7.45772e-004
PhtlicAnhydr	557.65	1307.31	7.66	5.64963e+003	3.07165e+001	4.51330e-002	2.83689e-004
NitroC1	374.30	1137.96	7.70	-1.11516e-006	7.41636e+000	9.88992e-002	-3.60331e-005
NitroC2	387.95	1052.00	8.43	2.72497e-006	4.44909e+001	4.15899e-002	1.26866e-004
1-NitroC3	404.33	1005.53	8.95	-1.43275e-006	-6.96547e+000	2.24964e-001	-1.06336e-004
2-NitroC3	393.40	993.34	8.97	1.03175e-006	1.74271e+001	1.58674e-001	-2.19330e-005
1-NitroC4	426.10	975.32	9.39	1.51691e-006	-4.17400e+000	2.60556e-001	-1.06626e-004
2-NitroC4	412.90	986.85	9.18	4.39056e-008	-1.20620e+001	2.76144e-001	-1.18673e-004
NitroBZ	481.45	1206.56	7.90	-1.68760e-007	6.94987e+000	1.92129e-001	-7.06661e-006
12-NitroBZ	592.00	1359.06	7.52	-4.06369e-005	-1.11900e+001	3.17058e-001	-1.41186e-004
13-NitroBZ	572.00	1422.31	7.10	-4.06369e-005	-1.11900e+001	3.17058e-001	-1.41186e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
M-P-Sulphide	8.19572e-009	-1.98178e-020	1.00000e+000	0.37396	0.47667	Misc	-163880
B-M-Sulphide	7.60907e-009	2.74187e-020	1.00000e+000	0.38301	0.46646	Misc	
E-P-Sulphide	7.06433e-009	-5.26139e-020	1.00000e+000	0.38269	0.46578	Misc	
B-E-Sulphide	1.05286e-008	1.33102e-019	1.00000e+000	0.39059	0.45594	Misc	
iP-Sulphide	3.86633e-008	4.26482e-020	1.00000e+000	0.39485	0.47129	Misc	-163880
P-Sulphide	6.46474e-009	8.94947e-020	1.00000e+000	0.39821	0.46068	Misc	
MPentylSulph	1.10798e-008	8.50302e-020	1.00000e+000	0.39552	0.45956	Misc	
P-diSulphide	2.02460e-008	9.16537e-020	1.00000e+000	0.38479	0.45247	Misc	
B-Sulphide	1.25699e-008	6.84516e-020	1.00000e+000	0.39034	0.44736	Misc	-163880
B-diSulphide	2.67819e-008	1.23783e-019	1.00000e+000	0.43612	0.44118	Misc	
HexylSulphid	2.63366e-008	-1.68630e-019	1.00000e+000	0.43282	0.41263	Misc	
PentylSulphd	1.97363e-008	7.69122e-020	1.00000e+000	0.42275	0.42607	Misc	
PentdiSulphd	3.35165e-008	-9.43451e-020	1.00000e+000	0.44654	0.42619	Misc	-163880
HeptylSulphd	3.30966e-008	1.01858e-019	1.00000e+000	0.43759	0.39932	Misc	
ThiaCC6	1.52567e-008	1.91340e-019	1.00000e+000	0.37575	0.49634	Misc	
ThiaCC7	-1.22984e-008	1.39440e-019	1.00000e+000	0.37583	0.48125	Misc	
H2SO4	6.30118e-008	-1.18337e-011	1.00000e+000	-0.80053	-1.16998	Misc	19600
HCN	4.53736e-009	-1.01602e-020	1.00000e+000	0.31689	0.45192	Misc	13400
HNO3	1.21017e-008	-1.12875e-012	1.00000e+000	0.04678	-0.36700	Misc	
Cyanogen	7.37480e-009	-2.10427e-020	1.00000e+000	0.41492	0.50095	Misc	
SULFOLANE	-9.70282e-010	5.13186e-012	1.00000e+000	-0.02605	-0.52644	Misc	
Formamide	-4.85614e-008	1.14729e-011	1.00000e+000	-0.08472	-0.48759	Misc	-506039
Acetamide	-4.50889e-008	1.22644e-011	1.00000e+000	-0.31048	-0.94521	Misc	-1074000
n-M-Formamid	-2.14122e-007	6.51142e-011	1.00000e+000	-0.03837	-0.42087	Misc	-1149500
DMF	-2.05480e-008	7.75428e-012	1.00000e+000	0.06946	-0.16301	Misc	-1788700
DEFormamide	6.27520e-022	6.63880e-025	1.00000e+000	0.38349	0.45606	Misc	-2380000
diMAcetamide	4.65998e-008	-7.38722e-012	1.00000e+000	0.12130	-0.21390	Misc	
SELEXOL	-6.14182e-022	-2.72630e-026	1.00000e+000	0.06777	-0.55285	Misc	
BCI3	1.35971e-008	-4.03017e-020	1.00000e+000	0.31464	0.49617	Misc	
SilicTrtChl	1.89118e-008	4.93560e-020	1.00000e+000	0.35820	0.48207	Misc	-163880
Hydrazine	1.50624e-008	2.55811e-021	1.00000e+000	0.01917	-0.11005	Misc	-5341600
11MHydrazine	-1.36735e-022	1.18356e-025	1.00000e+000	-0.00502	-0.43726	Misc	-174890
Thiazole	-2.37000e-008	-1.03475e-020	1.00000e+000	0.00920	-0.24186	Misc	
4-M-Thiazole	-2.69500e-008	2.36495e-020	1.00000e+000	0.45448	0.51595	Misc	
Phosgene	1.26746e-008	-2.17075e-021	1.00000e+000	0.40538	0.25367	Misc	
Morpholine	1.04971e-008	-7.14629e-021	1.00000e+000	-0.42419	-1.06728	Misc	-1389500
C2Anhydride	2.13391e-008	-1.15015e-012	1.00000e+000	0.02094	-0.34256	Misc	
MaleicAnhydr	5.22498e-007	-1.48704e-010	1.00000e+000	-0.11122	-0.47067	Misc	
PhtlicAnhydr	-2.86369e-007	8.83001e-011	1.00000e+000	-0.42855	-1.01426	Misc	
NitroC1	5.21246e-009	2.81303e-020	1.00000e+000	-0.06696	-0.26111	Misc	-643160
NitroC2	-4.33996e-008	-1.56859e-020	1.00000e+000	-0.01972	-0.32376	Misc	-1249700
1-NitroC3	2.87298e-008	-3.36615e-012	1.00000e+000	0.22673	-0.16451	Misc	-1858900
2-NitroC3	-2.05609e-008	7.33690e-012	1.00000e+000	0.20811	-0.15913	Misc	-1845500
1-NitroC4	1.91111e-008	-3.45616e-020	1.00000e+000	0.40320	0.45400	Misc	-2978000
2-NitroC4	2.29174e-008	-1.54792e-021	1.00000e+000	0.37195	0.46074	Misc	
NitroBZ	-2.51245e-008	7.63062e-022	1.00000e+000	-0.05718	-0.45552	Misc	
12-NitroBZ	2.50994e-008	4.95308e-019	1.00000e+000	-0.17736	-0.84855	Misc	
13-NitroBZ	2.50994e-008	4.95308e-019	1.00000e+000	0.28631	-0.26445	Misc	-2813500

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
14-NitroBZ	817	168.108	803.00	38.50000	0.43400	0.46301	0.68610	0.68610
135-NitroBZ	818	213.106	1004.96	33.70000	0.52000	0.49814	0.80820	0.80820
Thiophene	819	84.136	579.40	56.70000	0.21897	0.22777	0.19596	0.19336
2MThiophene	820	98.160	600.00	48.50000	0.27550	0.26615	0.23800	0.23800
3MThiophene	821	98.160	615.00	49.50000	0.27550	0.28567	0.24200	0.24200
Thiolane	822	88.174	631.95	51.60000	0.24900	0.26133	0.19880	0.19880
Thiophenol	823	110.180	689.00	47.30000	0.31499	0.31507	0.26280	0.26280
14-Dioxane	824	88.106	587.00	52.08100	0.23800	0.25238	0.28040	0.27790
TCIEtyCarbo	825	225.839	663.15	40.83400	0.36399	0.39811	0.39206	0.39206
Oxazole	826	69.063	552.00	63.20000	0.23700	0.27504	0.23307	0.23307
SiCl4	827	169.889	506.00	37.50000	0.32600	0.32014	0.26800	0.26800
SnCl4	828	260.528	591.90	37.50000	0.35100	0.34665	0.27100	0.27100
AsCl3	829	181.279	519.40	49.80000	0.25200	0.25580	0.56700	0.56700
AlCl3	830	133.339	625.60	26.30000	0.26200	0.18261	0.65700	0.65700
SbCl3	831	228.130	521.00	62.70000	0.27200	0.20520	0.26500	0.26500
POCl3	832	153.330	602.15	49.60000	0.27600	0.28689	0.18976	0.46690
Arsine	833	77.945	372.00	65.50000	0.09780	0.08639	0.00580	-1.85020
CyanogenCl	834	61.470	449.00	59.90000	0.16300	0.13956	0.32211	0.32211
MCISilane	835	115.030	483.00	39.50000	0.28900	0.28548	0.27575	0.27575
TriClActylCl	836	181.832	590.00	41.00000	0.33200	0.33877	0.35016	0.35016
DiClAcetylCl	837	147.386	585.00	46.10000	0.28300	0.28758	0.30893	0.30893
TriC2C2al	838	147.386	565.00	44.10000	0.28800	0.28986	0.33233	0.33233
TriClC2oicAc	839	163.386	688.00	48.10000	0.30900	0.32663	0.54903	0.54903
ChlrocetylCl	840	112.943	581.00	51.10000	0.24500	0.24009	0.35397	0.35397
DiClC2al	841	112.943	555.00	49.50000	0.23900	0.23501	0.34368	0.34368
DiClC2oicAc	842	128.942	686.00	51.70000	0.26500	0.27566	0.55499	0.55499
ClC2al	843	78.498	555.00	53.70000	0.20100	0.18676	0.32970	0.32970
ClC2oicAcid	844	94.497	686.00	57.80000	0.22100	0.22055	0.54610	0.54610
MCIC1oate	845	94.497	525.00	53.60000	0.22100	0.22683	0.39207	0.39207
HydrxyActNtr	846	57.052	664.00	59.30000	0.19500	0.18507	0.80072	0.80072
AminoActNitr	847	56.067	638.00	54.40000	0.22900	0.21694	0.46569	0.46569
EG_Dinitrate	848	152.063	654.00	40.40000	0.36200	0.36073	0.79036	0.79036
ThioGlycAcid	849	92.118	733.00	61.00000	0.23900	0.23634	0.55980	0.55980
GlycolicAcid	850	76.052	616.00	73.10000	0.17700	0.20475	1.05917	1.05917
ChloroMthylM	851	80.514	521.00	50.30000	0.21400	0.21401	0.26976	0.26976
DMDCISilane	852	129.061	520.35	34.90000	0.35800	0.34063	0.26747	0.26747
2_MercEthanol	853	78.135	629.00	62.70000	0.21900	0.23631	0.67156	0.67156
12C2DiThiol	854	94.201	663.00	53.60000	0.20900	0.25527	0.25705	0.25705
DMSilane	855	60.171	402.00	35.60000	0.25800	0.24763	0.13221	0.13221
PropargylCl	856	74.509	541.00	53.00000	0.21100	0.20311	0.15187	0.15187
ECIC1oate	857	108.524	508.15	45.00000	0.27400	0.31116	0.83496	0.83496
MCIC2oate	858	108.524	600.00	45.00000	0.27000	0.27262	0.43404	0.43404
TNT	859	227.087	680.00	30.00000	0.41900	0.58036	1.18412	1.18412
3Mrcpc3oicac	860	106.141	729.00	50.20000	0.28100	0.31653	0.58853	0.58853
MetxyActAcid	861	90.078	691.00	49.80000	0.25100	0.26184	0.62616	0.62616
n_MAcetamide	862	73.095	718.00	49.80000	0.26700	0.24954	0.43511	0.43511
2C3Mercaptan	863	76.162	517.00	47.50000	0.25400	0.26074	0.21195	0.21195
TriMAluminum	864	72.086	620.00	40.00000	0.27100	0.28249	0.21791	0.21791

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
14-NitroBZ	572.00	1314.18	7.68	-4.06369e-005	-1.11900e+001	3.17058e-001	-1.41186e-004
135-NitroBZ	747.00	1682.32	6.56	-1.62706e-005	8.59998e+000	3.36989e-001	-1.44972e-004
Thiophene	357.20	1060.00	8.14	0.00000e+000	-3.06297e+001	2.24054e-001	-1.25817e-004
2MThiophene	385.70	1098.06	8.06	-5.83124e-006	-1.91239e+001	2.38298e-001	-1.13230e-004
3MThiophene	388.60	1026.44	8.65	-2.38740e-006	-2.31466e+001	2.49007e-001	-1.25603e-004
Thiolane	394.27	1004.21	8.88	8.43783e-007	-7.50910e+000	1.92246e-001	-4.92689e-005
Thiophenol	442.29	1081.77	8.57	0.00000e+000	-3.49344e+000	2.14104e-001	-6.08108e-005
14-Dioxane	374.47	1038.91	8.44	1.64290e+004	-6.44573e+001	3.31314e-001	-1.80603e-004
TCIEtyCarbo	443.15	1800.00	5.15	6.42742e-008	5.91802e+001	3.10348e-001	-2.31794e-004
Oxazole	342.65	724.86	11.74	1.05726e+003	1.21979e+001	7.57911e-002	4.06972e-005
SiCl4	330.75	1495.25	5.63	-2.68409e+004	8.47014e+001	1.88631e-002	-5.31374e-006
SnCl4	387.25	2236.94	3.96	-2.94702e+004	9.60590e+001	9.79789e-003	-2.73937e-006
AsCl3	403.15	2177.05	4.13	-2.32664e+004	7.64745e+001	5.49230e-003	-1.56098e-006
AlCl3	455.85	2455.83	3.81	-2.13812e+004	6.83541e+001	1.19352e-002	-3.36204e-006
SbCl3	493.35	3165.29	3.04	-1.70166e+004	5.55002e+001	5.54796e-003	-1.56491e-006
POCl3	378.65	1683.71	5.23	-1.38690e-007	2.38152e+001	1.62332e-001	-1.68632e-004
Arsine	210.67	1356.93	5.33	7.97486e-008	3.14038e+001	6.22445e-004	4.03935e-005
CyanogenCl	286.00	1191.43	6.73	0.00000e+000	2.02564e+001	6.47203e-002	-6.62018e-005
MCISilane	314.70	1115.81	7.42	0.00000e+000	3.65247e+001	1.18504e-001	-6.86725e-005
TriClActylCl	391.15	1628.95	5.46	0.00000e+000	4.88112e+001	1.45883e-001	-1.15401e-004
DiClAcetylCl	380.45	1534.68	5.74	0.00000e+000	2.71790e+001	1.55744e-001	-1.24879e-004
TriC2C2al	370.85	1514.93	5.77	0.00000e+000	4.60065e+001	1.16076e-001	-7.94024e-005
TriClC2oicAc	470.78	1608.02	5.89	0.00000e+000	2.40681e+001	2.08802e-001	-1.83112e-004
ChlrocetylCl	379.15	1422.21	6.19	0.00000e+000	2.88482e+001	1.09405e-001	-6.41497e-005
DiClC2al	362.00	1427.40	6.07	0.00000e+000	4.30845e+001	5.69827e-002	2.41095e-005
DiClC2oicAc	467.15	1567.55	6.02	0.00000e+000	5.07258e+001	7.68679e-002	-5.27595e-006
ClC2al	358.00	1209.19	7.14	0.00000e+000	2.72383e+001	6.75811e-002	1.53069e-006
ClC2oicAcid	462.50	1373.56	6.85	0.00000e+000	8.07545e+000	1.54273e-001	-9.63569e-005
MCIC1oate	344.00	1227.92	6.94	0.00000e+000	1.58821e+001	1.28434e-001	-4.61171e-005
HydrxyActNtr	467.00	1101.90	8.57	0.00000e+000	3.76889e+001	4.48889e-002	1.34207e-005
AminoActNitr	425.00	828.06	11.05	0.00000e+000	3.28464e+001	6.92726e-002	-3.02964e-006
EG_Dinitrate	472.15	1495.31	6.34	0.00000e+000	-2.66460e+001	3.58000e-001	-2.40129e-004
ThioGlycAcid	493.00	1329.82	7.23	0.00000e+000	1.39626e+001	1.61030e-001	-9.99485e-005
GlycolicAcid	443.00	1270.14	7.30	0.00000e+000	4.77533e-001	1.75028e-001	-1.12990e-004
ChloroMthylM	332.65	1072.08	7.86	0.00000e+000	1.86984e+001	1.17549e-001	-4.99148e-005
DMDCISilane	343.35	1078.76	7.90	0.00000e+000	3.76048e+001	1.63003e-001	-9.33972e-005
2_MercEthanol	430.90	1118.80	8.21	0.00000e+000	2.65261e+001	1.11846e-001	-2.75315e-005
12C2DiThiol	419.20	1128.94	8.06	0.00000e+000	3.74650e+001	1.02832e-001	-1.67109e-005
DMSilane	253.55	591.43	13.02	0.00000e+000	2.79301e+001	1.09742e-001	5.51665e-006
PropargylCl	331.00	1023.90	8.22	0.00000e+000	1.89127e+001	1.17157e-001	-7.26808e-005
ECIC1oate	366.00	1142.31	7.62	0.00000e+000	3.15027e+001	1.27634e-001	-1.96697e-005
MCIC2oate	402.97	1241.68	7.24	0.00000e+000	-1.69996e+001	2.69995e-001	-2.04045e-004
TNT	523.00	1599.06	6.13	4.14333e+004	-4.83457e+002	6.78337e-001	-1.85694e-004
3Mrcpc3oicac	501.00	1212.68	7.97	0.00000e+000	2.14374e+001	2.05491e-001	-1.35000e-004
MetxyActAcid	478.26	1179.50	8.07	0.00000e+000	-5.61742e+001	4.48962e-001	-5.65223e-004
n_MAcetamide	478.15	951.09	10.00	0.00000e+000	9.62094e-001	1.33911e-001	-1.15113e-005
2C3Mercaptan	325.71	818.53	10.23	0.00000e+000	3.34749e+001	1.04524e-001	2.13600e-005
TriMAluminum	400.27	754.82	11.88	0.00000e+000	5.85613e+000	1.83241e-001	-6.34793e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
14-NitroBZ	2.50994e-008	4.95308e-019	1.00000e+000	0.01249	-0.66688	Misc	-2806000
135-NitroBZ	2.38242e-008	2.04518e-019	1.00000e+000	-0.67573	-0.98859	Misc	-2679900
Thiophene	3.13455e-008	1.74159e-025	1.00000e+000	-0.04757	-0.28152	Misc	-2435090
2MThiophene	2.42062e-008	1.37897e-019	1.00000e+000	0.35685	0.48469	Misc	-3035000
3MThiophene	2.84121e-008	5.74804e-020	1.00000e+000	0.38368	0.49551	Misc	-3033990
Thiolane	-7.53489e-009	4.75291e-012	1.00000e+000	0.25071	-0.13821	Misc	-2764500
Thiophenol	-9.79095e-009	6.94768e-012	1.00000e+000	0.04126	-0.16715	Misc	-3447400
14-Dioxane	5.58398e-008	-7.35050e-012	1.00000e+000	-0.13007	-0.61961	Misc	
TCIEtyCarbo	1.70049e-007	3.76698e-022	1.00000e+000	0.00330	-0.39588	Misc	-163880
Oxazole	-5.51733e-008	1.56234e-011	1.00000e+000	0.43271	0.51403	Misc	-1495200
SiCl4	7.92286e-018	-1.79261e-021	1.00000e+000	0.37357	0.48023	Misc	
SnCl4	3.92879e-017	-8.60122e-021	1.00000e+000	0.36943	0.47822	Misc	
AsCl3	9.76069e-018	-2.15660e-021	1.00000e+000	0.39972	0.39393	Misc	
AlCl3	5.77778e-017	-1.27561e-020	1.00000e+000	0.28082	0.37884	Misc	
SbCl3	3.24668e-017	-7.14755e-021	1.00000e+000	0.16226	0.27465	Misc	
POCl3	8.71420e-008	-1.75448e-011	1.00000e+000	0.40575	0.05724	Misc	
Arsine	-3.32589e-008	8.23231e-012	1.00000e+000	-0.39473	-0.64224	Misc	
CyanogenCl	3.69774e-008	-8.25296e-012	1.00000e+000	0.16641	-0.33912	Misc	-531000
MCISilane	2.40145e-008	-3.70188e-012	1.00000e+000	0.13816	-0.01240	Misc	-1356990
TriClActylCl	4.65857e-008	-6.92134e-012	1.00000e+000	-0.08727	-0.80447	Misc	-517199
DiClAcetylCl	5.60111e-008	-1.03375e-011	1.00000e+000	-0.07250	-0.67563	Misc	-626470
TriC2C2al	3.16519e-008	-5.50285e-012	1.00000e+000	-0.05654	-0.47660	Misc	-672000
TriClC2oicAc	9.03600e-008	-1.83849e-011	1.00000e+000	-1.75265	-2.92354	Misc	-473000
ChlrocetylCl	2.26933e-008	-3.65362e-012	1.00000e+000	-0.18533	-0.65913	Misc	-744300
DiClC2al	-4.25368e-008	1.39467e-011	1.00000e+000	-0.66171	-1.53366	Misc	-811000
DiClC2oicAc	-2.13773e-008	8.36724e-012	1.00000e+000	-0.96609	-1.70185	Misc	-530900
ClC2al	-2.06833e-008	7.33999e-012	1.00000e+000	-0.84748	-1.16715	Misc	-917000
ClC2oicAcid	3.60491e-008	-6.03128e-012	1.00000e+000	-0.13176	-0.73027	Misc	-638300
MCIC1oate	-1.26795e-008	1.16099e-011	1.00000e+000	-0.21827	-0.54950	Misc	-689000
HydrxyActNtr	-1.91964e-008	5.00623e-012	1.00000e+000	-0.85186	-1.74926	Misc	-1008000
AminoActNitr	-1.19942e-008	3.54801e-012	1.00000e+000	-0.51755	-0.85257	Misc	-1336000
EG_Dinitrate	9.04177e-008	-1.46153e-011	1.00000e+000	-0.21389	-0.84065	Misc	-1034000
ThioGlycAcid	4.21035e-008	-8.30741e-012	1.00000e+000	-0.49846	-0.71845	Misc	-1112980
GlycolicAcid	4.36993e-008	-7.07595e-012	1.00000e+000	-0.91295	-2.62153	Misc	-607000
ChloroMthylM	1.39200e-008	-1.94292e-012	1.00000e+000	-0.17760	-0.27019	Misc	-1155990
DMDCISilane	3.53468e-008	-6.23260e-012	1.00000e+000	-0.04609	-0.32560	Misc	-1942000
2_MercEthanol	-3.30654e-010	9.37198e-013	1.00000e+000	-1.09238	-1.86175	Misc	-1560000
12C2DiThiol	-4.30084e-009	1.42638e-012	1.00000e+000	-0.25515	-0.39988	Misc	-2049990
DMSilane	-3.15161e-008	9.47555e-012	1.00000e+000	0.31914	0.49808	Misc	-2569000
PropargylCl	2.85350e-008	-5.06934e-012	1.00000e+000	0.11136	-0.01886	Misc	-1670000
ECIC1oate	-1.41024e-008	5.12958e-012	1.00000e+000	-0.16636	-0.60256	Misc	-1280000
MCIC2oate	9.13782e-008	-1.68662e-011	1.00000e+000	-0.06692	-0.43280	Misc	-1290000
TNT	-3.19331e-021	8.88535e-025	1.00000e+000	-0.07822	-1.13908	Misc	-3295900
3Mrcpc3oicac	6.87917e-008	-1.76649e-011	1.00000e+000	-0.54765	-0.91639	Misc	-1734500
MetxyActAcid	4.38284e-007	-1.40336e-010	1.00000e+000	-0.31001	-0.56805	Misc	-1270000
n_MAcetamide	-1.87954e-008	6.02370e-012	1.00000e+000	-0.48388	-1.04447	Misc	-1710000
2C3Mercaptan	-3.97320e-008	1.11362e-011	1.00000e+000	0.02971	-0.16197	Misc	-2339800
TriMAluminum	8.60705e-009	2.80594e-013	1.00000e+000	0.34955	0.48301	Misc	-2984100

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Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
TMCISilane	865	108.639	497.75	32.00000	0.36600	0.35121	0.27012	0.27012
3_Amino1C3ol	866	75.111	649.00	55.00000	0.24500	0.27183	0.82727	0.82727
TMPhosphate	867	140.076	722.00	56.60000	0.27700	0.37249	0.36953	0.36953
Cl4Thiophene	868	221.921	753.00	36.70000	0.42800	0.41763	0.36077	0.36077
MCyanAcetate	869	99.089	687.00	38.10000	0.30500	0.29301	0.54128	0.54128
ECIC2oate	870	122.551	618.00	37.90000	0.32700	0.33026	0.39324	0.39324
AcetoneCyaHy	871	85.105	620.00	42.50000	0.29600	0.31538	0.76725	0.76725
2MAcryAmide	872	85.105	741.00	54.50000	0.29800	0.30767	0.42090	0.42090
3MtoxyC3Nitr	873	85.105	638.00	36.30000	0.32400	0.28842	0.45970	0.45970
EThioEthanol	874	106.189	641.00	43.20000	0.32500	0.36079	0.73104	0.73104
DMrcEtylC2ol	875	138.255	720.00	36.90000	0.37800	0.38571	0.41930	0.41930
ThioDiGlycol	876	122.188	731.00	46.10000	0.34300	0.42856	1.17637	1.17637
DESulphite	877	138.188	624.00	37.70000	0.37300	0.40894	0.50651	0.50651
DESulphate	878	154.186	749.00	64.80000	0.39800	0.42642	0.39114	0.39114
2AmnEtxyc2ol	879	105.137	699.00	43.60000	0.33000	0.36798	0.96930	0.96930
nAminoEC2ol	880	104.152	698.00	44.60000	0.32800	0.39575	1.04726	1.04726
TMSilane	881	88.225	450.40	28.14000	0.35700	0.35850	0.22399	0.22399
GltrcAnhydrd	882	114.097	838.00	58.00000	0.27500	0.31359	0.53722	0.53722
gValrolctone	883	100.113	727.00	48.40000	0.27900	0.30809	0.40304	0.40304
nBlsoCyanate	884	99.132	568.00	34.40000	0.36000	0.33877	0.41451	0.41451
nMTioPyrdone	885	115.195	869.00	43.20000	0.34700	0.27403	0.23812	0.23812
3MSulfolane	886	134.199	817.00	42.40000	0.35300	0.37636	0.41913	0.41913
DECarbonate	887	118.133	576.00	33.90000	0.35600	0.37607	0.48477	0.48477
EthylLactate	888	118.133	588.00	38.60000	0.35400	0.38775	0.79259	0.79259
tBFormamide	889	101.148	692.00	35.60000	0.38300	0.36623	0.44907	0.44907
EGMonoPEther	890	104.149	582.00	36.70000	0.34700	0.38768	0.78295	0.78295
12Cl4NitroBZ	891	192.001	758.00	36.00000	0.43600	0.42750	0.53846	0.53846
mClPhenol	892	128.557	729.00	53.20000	0.32000	0.33612	0.48558	0.48558
oClPhenol	893	128.557	675.00	50.00000	0.32500	0.32805	0.43719	0.43719
pClPhenol	894	128.557	738.00	53.20000	0.32500	0.33053	0.48488	0.48488
34ClAniline	895	162.018	800.00	41.10000	0.40900	0.39273	0.46780	0.46780
mClAniline	896	127.569	751.00	45.90000	0.36400	0.34413	0.41983	0.41983
oClAniline	897	127.569	722.00	45.90000	0.36400	0.34347	0.42133	0.42133
pClAniline	898	127.569	754.00	45.90000	0.36400	0.34537	0.42099	0.42099
cDiCyan1C4=	899	106.125	691.00	29.50000	0.39200	0.34408	0.67189	0.67189
tDiCyan1C4=	900	106.125	689.00	29.50000	0.39200	0.34549	0.66432	0.66432
14DiCyan2C4=	901	106.125	755.00	29.50000	0.42600	0.38254	0.66681	0.66681
222NitriloTA	902	134.141	823.00	26.40000	0.48500	0.44345	0.92397	0.92397
MGlutNitrile	903	108.139	742.00	28.80000	0.40400	0.39493	0.63806	0.63806
PHHydrazine	904	108.139	761.00	49.10000	0.41800	0.33496	0.53512	0.53512
BisCyEEther	905	124.138	783.00	28.30000	0.37700	0.43685	0.77755	0.77755
EAcetAcetate	906	130.143	643.00	32.70000	0.39100	0.41593	0.56070	0.56070
C3Anhydride	907	130.143	623.00	32.70000	0.39600	0.41852	0.55993	0.55993
CC6Oxime	908	113.155	715.00	46.90000	0.36900	0.41018	0.46201	0.46201
2EtxyEC2oate	909	132.158	597.00	24.60000	0.45900	0.43178	0.53318	0.53318
PGMMEther	910	132.158	597.90	30.09000	0.42100	0.42760	0.47618	0.47618
CC6Mercaptan	911	116.223	664.00	39.70000	0.35500	0.37331	0.26413	0.26413
DinC3Sulfone	912	150.242	763.00	31.10000	0.46300	0.49437	0.58206	0.58206

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
TMCISilane	330.75	866.11	9.71	0.00000e+000	3.58756e+001	2.13369e-001	-1.24739e-004
3_Amino1C3ol	460.65	989.09	9.50	0.00000e+000	7.51940e+000	2.00028e-001	-8.17451e-005
TMPPhosphate	465.85	1210.75	7.79	0.00000e+000	5.63656e+001	1.25967e-001	9.77574e-005
Cl4Thiophene	506.54	1710.43	5.67	0.00000e+000	9.30348e+000	2.69749e-001	-2.10963e-004
MCyanAcetate	478.24	1129.19	8.42	0.00000e+000	-1.66500e+001	2.58664e-001	-1.31934e-004
ECIC2oate	417.35	1155.06	7.87	0.00000e+000	-3.17725e+001	3.49590e-001	-2.55020e-004
AcetoneCyaHy	444.00	935.00	9.93	0.00000e+000	1.31738e+001	2.12589e-001	-1.10483e-004
2MAcryAmide	488.00	837.99	11.43	0.00000e+000	-2.54359e+001	3.18880e-001	-2.58997e-004
3MtoxyC3Nitr	438.15	943.88	9.79	0.00000e+000	1.00955e+001	1.94206e-001	-7.56099e-005
ETHioEthanol	456.65	1019.28	9.19	0.00000e+000	2.14323e+001	2.10210e-001	-6.72325e-005
DMrcEtylC2ol	490.15	1169.45	8.20	0.00000e+000	2.13444e+001	2.64638e-001	-1.23139e-004
ThioDiGlycol	555.15	1187.96	8.42	0.00000e+000	2.40848e+001	2.39933e-001	-1.02486e-004
DESulphite	431.15	1088.06	8.45	0.00000e+000	8.40809e+000	2.77772e-001	-1.08199e-004
DESulphate	483.00	1180.82	8.08	0.00000e+000	-1.90838e+001	3.45394e-001	-2.13208e-004
2AmnEtxyc2ol	514.00	1050.93	9.27	0.00000e+000	-9.62052e+000	3.27860e-001	-2.02357e-004
nAminoEC2ol	517.00	1034.02	9.44	0.00000e+000	-1.60509e+001	3.43831e-001	-1.90641e-004
TMSilane	299.80	651.68	12.49	0.00000e+000	6.33654e+001	1.38434e-001	1.54663e-005
GltrcAnhydrd	562.69	1243.53	8.08	0.00000e+000	-3.96251e+001	3.12375e-001	-1.32118e-004
gValrolctone	480.65	1057.70	9.01	0.00000e+000	-3.95388e+001	3.95951e-001	-2.93105e-004
nBlsoCyanate	388.15	891.96	9.95	0.00000e+000	2.25373e+001	1.70594e-001	-8.40892e-006
nMTioPyrdone	557.00	1353.93	7.39	0.00000e+000	-5.34383e+001	3.35890e-001	-1.78897e-004
3MSulfolane	549.15	1195.29	8.33	0.00000e+000	2.54360e+001	1.39711e-001	1.94213e-004
DECarbonate	399.95	980.52	9.14	0.00000e+000	-1.49431e+001	3.17850e-001	-1.42339e-004
EthylLactate	427.65	1044.42	8.78	0.00000e+000	-3.62195e+001	4.17054e-001	-2.93894e-004
tBFormamide	475.15	899.01	10.56	0.00000e+000	-1.15702e+001	2.60867e-001	-5.27012e-005
EGMonoPEther	424.50	915.34	9.99	0.00000e+000	-2.05314e+001	3.57655e-001	-2.20270e-004
12Cl4NitroBZ	529.00	1491.81	6.60	0.00000e+000	-2.13943e+001	4.24724e-001	-2.81001e-004
mClPhenol	487.00	1263.64	7.57	0.00000e+000	-3.27260e+001	3.40670e-001	-2.29571e-004
oClPhenol	447.53	1264.81	7.36	0.00000e+000	-3.27260e+001	3.40670e-001	-2.29571e-004
pClPhenol	493.11	1273.88	7.54	0.00000e+000	-3.27260e+001	3.40670e-001	-2.29571e-004
34ClAniline	545.00	1341.83	7.41	0.00000e+000	-1.59256e+001	3.56242e-001	-2.48009e-004
mClAniline	501.65	1221.20	7.92	0.00000e+000	-2.61381e+001	3.35236e-001	-2.12182e-004
oClAniline	481.99	1213.32	7.86	0.00000e+000	-2.61381e+001	3.35236e-001	-2.12182e-004
pClAniline	503.65	1174.90	8.24	0.00000e+000	-2.20965e+001	3.20126e-001	-1.86400e-004
cDiCyan1C4=	501.00	1071.91	9.01	0.00000e+000	1.30221e+001	1.84354e-001	2.06318e-005
tDiCyan1C4=	499.00	1064.29	9.07	0.00000e+000	-2.00174e+000	2.76703e-001	-1.59279e-004
14DiCyan2C4=	547.00	956.42	10.40	0.00000e+000	4.45183e+001	1.20226e-001	8.10285e-005
222NitriloTA	623.00	1107.88	9.38	0.00000e+000	1.99272e+001	3.00472e-001	-1.76157e-004
MGlutNitrile	536.15	959.03	10.30	0.00000e+000	3.28943e+001	2.15820e-001	-7.45397e-005
PHHydrazine	516.65	1094.31	8.92	0.00000e+000	-5.72691e+001	4.04255e-001	-2.65502e-004
BisCyEEther	579.00	1052.70	9.63	0.00000e+000	3.37582e+001	2.28515e-001	-6.20603e-005
EAcetAcetate	453.95	1031.93	9.06	0.00000e+000	-4.36755e+001	4.26336e-001	-2.75085e-004
C3Anhydride	440.15	1015.84	9.11	0.00000e+000	-1.86973e+001	3.64848e-001	-2.02005e-004
CC6Oxime	481.15	840.66	11.34	0.00000e+000	-3.03149e+001	2.99505e-001	-3.74768e-005
2EtxyEC2oate	429.45	979.42	9.37	0.00000e+000	-4.22261e+001	4.58117e-001	-2.93872e-004
PGMMEther	418.65	974.15	9.34	0.00000e+000	-5.47467e+001	5.10970e-001	-3.68581e-004
CC6Mercaptan	431.95	954.68	9.63	0.00000e+000	-8.91328e+001	4.59195e-001	-2.55892e-004
DinC3Sulfone	543.00	1041.19	9.53	0.00000e+000	2.11924e+001	3.18740e-001	-8.44848e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
TMCISilane	4.92293e-008	-8.96166e-012	1.00000e+000	-0.06276	-0.39297	Misc	-2795590
3_Amino1C3ol	1.79645e-008	-1.61732e-012	1.00000e+000	-0.91817	-2.12467	Misc	-1980000
TMPhosphate	-1.16706e-007	3.27239e-011	1.00000e+000	-0.19414	-0.48582	Misc	-2200000
Cl4Thiophene	8.76823e-008	-1.49277e-011	1.00000e+000	0.38216	0.46260	Misc	
MCyanAcetate	1.21328e-008	1.12943e-011	1.00000e+000	-0.26027	-0.76161	Misc	-1880990
ECIC2oate	1.10331e-007	-2.00231e-011	1.00000e+000	-0.12758	-0.50083	Misc	-1912990
AcetoneCyaHy	3.55306e-008	-5.35910e-012	1.00000e+000	0.48448	0.44377	Misc	-2239110
2MAcryAmide	1.45030e-007	-3.56376e-011	1.00000e+000	-0.04145	-0.70260	Misc	-1850000
3MtoxyC3Nitr	1.31759e-008	-4.71524e-013	1.00000e+000	-0.24142	-0.44704	Misc	-2289990
EThioEthanol	1.20057e-008	-1.04183e-012	1.00000e+000	0.49603	0.45081	Misc	-2790000
DMrcEtylC2ol	3.90945e-008	-6.56887e-012	1.00000e+000	-0.39931	-0.60102	Misc	-3145000
ThioDiGlycol	3.60347e-008	-7.90850e-012	1.00000e+000	-0.62047	-1.69435	Misc	-2609980
DESulphite	1.98503e-008	-1.09012e-012	1.00000e+000	-0.04170	-0.29199	Misc	-2480000
DESulphate	7.86114e-008	-1.27133e-011	1.00000e+000	0.47109	0.49824	Misc	-2270000
2AmnEtxyc2ol	8.90403e-008	-1.95926e-011	1.00000e+000	-1.17771	-2.40528	Misc	-2449990
nAminoEC2ol	6.70535e-008	-1.07983e-011	1.00000e+000	-1.16024	-2.62841	Misc	-2740000
TMSilane	-4.01644e-008	1.15060e-011	1.00000e+000	0.35063	0.47440	Misc	-3680000
GltrcAnhydrd	3.07365e-008	-3.27100e-012	1.00000e+000	-0.50164	-1.01620	Misc	-2270000
gValrolctone	1.29244e-007	-2.44470e-011	1.00000e+000	-0.02256	-0.37876	Misc	-2492910
nBIsocyanate	-2.50737e-008	5.96791e-012	1.00000e+000	0.38645	0.45374	Misc	-2889990
nMTioPyrdone	6.61460e-008	-1.27052e-011	1.00000e+000	0.27906	0.46637	Misc	-3097000
3MSulfolane	-2.41597e-007	7.90064e-011	1.00000e+000	-0.17568	-0.69429	Misc	-2990000
DECarbonate	3.34067e-008	-2.97566e-012	1.00000e+000	0.12500	-0.22049	Misc	-2495400
EthylLactate	1.27430e-007	-2.38036e-011	1.00000e+000	-0.67007	-1.60614	Misc	-2481570
tBFormamide	-3.88776e-008	1.88222e-011	1.00000e+000	0.29769	-0.48129	Misc	-2960000
EGMonoPEther	9.66739e-008	-2.10848e-011	1.00000e+000	-0.32550	-1.26786	Misc	-2949000
12Cl4NitroBZ	1.03372e-007	-1.60322e-011	1.00000e+000	-0.56566	-1.10801	Misc	-2740000
mClPhenol	8.85368e-008	-1.46112e-011	1.00000e+000	-1.44140	-2.16586	Misc	-2760000
oClPhenol	8.85368e-008	-1.46112e-011	1.00000e+000	-0.39207	-0.93523	Misc	-2790000
pClPhenol	8.85368e-008	-1.46112e-011	1.00000e+000	-0.45383	-1.06326	Misc	-2780000
34ClAniline	9.89387e-008	-1.68714e-011	1.00000e+000	-0.67643	-0.63404	Misc	-3000000
mClAniline	7.71287e-008	-1.20640e-011	1.00000e+000	-0.79794	-1.16433	Misc	-3079140
oClAniline	7.71287e-008	-1.20640e-011	1.00000e+000	-0.55561	-0.95016	Misc	-3086470
pClAniline	5.67621e-008	-6.02950e-012	1.00000e+000	-0.25199	-0.60558	Misc	-3060000
cDiCyan1C4=	-9.70189e-008	3.87855e-011	1.00000e+000	-0.58615	-1.38344	Misc	-3289990
tDiCyan1C4=	5.34955e-008	-7.66809e-012	1.00000e+000	-0.58154	-1.38862	Misc	-3289990
14DiCyan2C4=	-1.21750e-007	4.17044e-011	1.00000e+000	-0.77246	-1.37918	Misc	-3350000
222NitriloTA	6.23982e-008	-9.92206e-012	1.00000e+000	0.82643	0.68583	Misc	-3409000
MGlutNitrile	8.49802e-009	9.27072e-013	1.00000e+000	-0.02719	-0.53091	Misc	-3400040
PHHydrazine	1.03190e-007	-1.75390e-011	1.00000e+000	-1.90698	-2.58064	Misc	-3470900
BisCyEEther	-8.90310e-009	6.10030e-012	1.00000e+000	0.03211	-0.57123	Misc	-3260000
EAcetAcetate	1.10268e-007	-1.96021e-011	1.00000e+000	-0.14523	-0.58573	Misc	-2960000
C3Anhydride	7.03072e-008	-1.16008e-011	1.00000e+000	-0.03189	-0.38622	Misc	-2905990
CC6Oxime	-4.61590e-008	1.62666e-011	1.00000e+000	0.46085	0.47568	Misc	-3609990
2EtxyEC2oate	1.19280e-007	-2.23742e-011	1.00000e+000	-0.15060	-0.61017	Misc	-3150000
PGMMEther	1.64373e-007	-3.17864e-011	1.00000e+000	-0.31888	-0.81417	Misc	-3149000
CC6Mercaptan	9.14959e-008	-1.62352e-011	1.00000e+000	-0.19620	-0.44023	Misc	-3968000
DinC3Sulfone	-5.83351e-009	5.91779e-012	1.00000e+000	-0.39150	-0.90201	Misc	-3800000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
2(2EyEy)C2ol	913	134.175	632.00	31.40000	0.42000	0.49060	0.90093	0.90093
TriEAluminum	914	114.166	678.15	89.30000	0.23000	0.49569	0.84178	0.84178
EAlSesquiCl	915	247.505	747.00	69.60000	0.42800	0.74620	0.43412	0.43412
6AminoC6ol	916	117.191	665.00	34.40000	0.43600	0.51702	0.96892	0.96892
nAminoEPipez	917	129.205	708.00	38.50000	0.40700	0.44403	0.55724	0.55724
TEPhosphate	918	182.156	750.00	66.90000	1.00996	0.56090	0.43837	0.43837
HexMDiSiloxn	919	162.378	518.70	19.14000	0.60100	0.62289	0.41759	0.41759
HexMDiSilazn	920	161.395	544.00	19.20000	0.61300	0.63330	0.51010	0.51010
4Cl3NitroBZ	921	225.554	686.00	27.40000	0.49000	0.50481	0.60378	0.60378
3NitroTriFBZ	922	191.110	667.00	28.00000	0.46000	0.43959	0.53641	0.53641
BenzoylCl	923	140.569	697.00	40.60000	0.36700	0.37357	0.41592	0.41592
BenzoTriCl	924	195.475	737.00	33.40000	0.44700	0.44498	0.25989	0.25989
PHIsoCyanate	925	119.123	648.00	40.60000	0.34100	0.34502	0.43784	0.43784
Tetryl	926	287.144	673.00	26.10000	0.66500	0.92322	1.27374	1.27374
25NitroTolue	927	182.136	814.00	34.00000	0.47200	0.48342	0.74010	0.74010
26NitroTolue	928	182.136	770.00	34.00000	0.45500	0.47301	0.73777	0.73777
34NitroTolue	929	182.136	842.00	34.00000	0.48700	0.49698	0.73708	0.73708
35NitroTolue	930	182.136	814.00	34.00000	0.47300	0.48067	0.70230	0.70230
Formalinide	931	121.138	787.00	41.10000	0.38200	0.37890	0.54494	0.54494
mNitroToluen	932	137.138	734.00	38.00000	0.44100	0.39495	0.49026	0.49026
oNitroToluen	933	137.138	720.00	38.00000	0.44100	0.39052	0.48499	0.48499
pNitroToluen	934	137.138	736.00	38.00000	0.44100	0.39942	0.54065	0.54065
oNitroAnisol	935	153.138	782.00	37.60000	0.42200	0.42338	0.56134	0.56134
Guaiacol	936	124.138	697.00	47.30000	0.35300	0.36254	0.56267	0.56267
pMethoxyPHnl	937	124.138	758.00	49.70000	0.34200	0.36164	0.54054	0.54054
BZIMercaptan	938	124.207	712.00	40.60000	0.36700	0.36860	0.29934	0.29934
CC6IsoCyanat	939	125.166	633.00	34.70000	0.37200	0.37099	0.52159	0.52159
E3EthxyC3ate	940	146.186	609.00	27.20000	0.46200	0.49925	0.57811	0.57811
PGlyTBEther	941	132.203	567.00	29.90000	0.43300	0.50865	0.77378	0.77378
IsoPhtaylCl	942	203.024	768.00	33.30000	0.47100	0.49914	0.64549	0.64549
Vanillin	943	152.149	777.00	40.10000	0.41500	0.45398	0.75730	0.75730
pPhenetidine	944	137.179	754.00	35.70000	0.44600	0.43911	0.53512	0.53512
ButyricAnhyd	945	158.197	644.00	26.40000	0.50100	0.55157	0.65452	0.65452
DiESuccinate	946	174.197	666.00	25.30000	0.52200	0.57467	0.67722	0.67722
DiEGEEther	947	176.212	660.00	24.20000	0.56500	0.60339	0.71450	0.71450
DitBPeroxide	948	146.229	547.00	24.80000	0.50800	0.54953	0.40315	0.40315
DinBSulfone	949	178.296	767.00	25.40000	0.56900	0.62536	0.68773	0.68773
DEGDiEEther	950	162.229	624.00	23.70000	0.55800	0.60173	0.68067	0.68067
TEGDiMEther	951	178.229	651.00	23.10000	0.54800	0.63735	0.79153	0.79153
tOctylMercap	952	146.296	627.00	25.90000	0.52900	0.52637	0.30691	0.30691
OctMCyTrSiln	953	296.618	586.50	13.32000	0.97000	0.98841	0.58899	0.58899
ToIDiisoCyan	954	174.158	725.00	30.40000	0.52500	0.49825	0.65822	0.65822
8HyQuinoline	955	145.160	788.00	43.60000	0.41400	0.40872	0.52230	0.52230
AcetVanillon	956	166.177	786.00	36.50000	0.46700	0.51779	0.78557	0.78557
EVanillin	957	166.177	748.00	32.70000	0.46700	0.53345	1.07278	1.07278
DPGMMEAcetat	958	190.240	647.00	22.70000	0.60900	0.66520	0.70172	0.70172
DMIPthalate	959	194.186	764.00	27.90000	0.53900	0.53822	0.62473	0.62473
DMPthalate	960	194.186	766.00	27.80000	0.53000	0.57393	0.64731	0.64731

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
2(2EyEy)C2ol	475.15	993.37	9.56	0.00000e+000	-1.83994e+001	4.15136e-001	-2.22405e-004
TriEAluminum	467.15	839.09	11.25	0.00000e+000	-1.78255e+001	3.57007e-001	-1.43551e-004
EAlSesquiCl	482.15	1096.16	8.70	0.00000e+000	-1.77140e+000	4.77521e-001	-2.46142e-004
6AminoC6ol	496.15	786.29	12.25	0.00000e+000	7.18135e+000	3.38811e-001	-1.37153e-004
nAminoEPipez	493.55	983.77	9.77	0.00000e+000	-1.73891e+001	3.93949e-001	-1.57797e-004
TEPhosphate	484.15	1075.18	8.88	0.00000e+000	-1.02880e+001	4.42435e-001	-1.89282e-004
HexMDiSiloxn	373.67	769.79	11.38	0.00000e+000	9.91626e+001	2.51090e-001	-7.52111e-006
HexMDiSilazn	399.15	772.07	11.60	0.00000e+000	-7.78849e+000	4.17957e-001	-1.33416e-004
4Cl3NitroBZ	495.73	1518.90	6.34	5.64813e+004	-4.59852e+002	6.72290e-001	-1.83130e-004
3NitroTriFBZ	475.93	1438.43	6.60	0.00000e+000	1.04267e+002	8.16991e-002	1.67036e-004
BenzoylCl	470.15	1217.03	7.77	0.00000e+000	-8.48962e+000	2.71078e-001	-1.33399e-004
BenzoTriCl	486.65	1378.69	6.94	0.00000e+000	-2.15107e+001	3.83630e-001	-2.74701e-004
PHIsoCyanate	438.75	1102.54	8.38	0.00000e+000	-2.76629e+001	2.87552e-001	-1.37966e-004
Tetryl	528.15	1065.33	9.23	0.00000e+000	8.40146e+000	4.61303e-001	-1.15318e-004
25NitroTolue	590.00	1340.41	7.61	4.63765e+004	-2.72013e+002	5.39731e-001	-1.45066e-004
26NitroTolue	558.00	1331.89	7.52	5.13992e+004	-2.79095e+002	5.39559e-001	-1.44913e-004
34NitroTolue	610.00	1308.06	7.89	4.48380e+004	-2.51221e+002	5.39068e-001	-1.44474e-004
35NitroTolue	588.00	1295.93	7.86	4.83791e+004	-2.52967e+002	5.38811e-001	-1.44245e-004
Formalinide	544.15	1078.43	9.21	0.00000e+000	-5.75034e+001	3.71123e-001	-2.08710e-004
mNitroToluen	505.00	1161.20	8.34	4.68599e+004	-1.63671e+002	4.03274e-001	-1.06446e-004
oNitroToluen	495.64	1167.31	8.25	4.82388e+004	-1.68932e+002	4.03396e-001	-1.06555e-004
pNitroToluen	511.65	1125.05	8.65	4.49115e+004	-1.46963e+002	4.02526e-001	-1.05778e-004
oNitroAnisol	546.15	1252.92	7.94	4.68704e+004	-2.08149e+002	4.52227e-001	-1.20565e-004
Guaiacol	478.15	1120.13	8.49	0.00000e+000	-4.92906e+001	3.87196e-001	-2.10408e-004
pMethoxyPHnl	516.00	1122.31	8.69	0.00000e+000	-5.77892e+001	4.18852e-001	-2.64378e-004
BZIMercaptan	468.15	1060.71	8.91	0.00000e+000	-3.42937e+001	3.77145e-001	-2.15261e-004
CC6IsoCyanat	442.15	1095.54	8.46	0.00000e+000	-6.77057e+000	2.12020e-001	8.71268e-005
E3EthxC3ate	438.15	954.77	9.68	0.00000e+000	-6.86954e+001	6.03441e-001	-4.63436e-004
PGlyTBEther	417.15	874.89	10.39	0.00000e+000	-5.89176e+001	5.09266e-001	-2.59013e-004
IsoPhtaylCl	549.00	1391.53	7.16	0.00000e+000	3.20557e+001	2.63269e-001	-1.15139e-004
Vanillin	558.00	1142.20	8.77	0.00000e+000	-2.91381e+001	4.00958e-001	-1.96307e-004
pPhenetidine	527.00	1065.05	9.23	0.00000e+000	-6.63760e+001	4.92929e-001	-2.98813e-004
ButyricAnhyd	470.93	972.27	9.73	0.00000e+000	2.53699e+001	4.13722e-001	-1.69238e-004
DiESuccinate	489.65	1044.59	9.18	0.00000e+000	-6.21828e+001	6.49896e-001	-4.84940e-004
DiEGEEther	490.55	1015.08	9.45	0.00000e+000	-5.94083e+001	6.21991e-001	-4.00156e-004
DitBPeroxide	384.15	798.56	11.07	0.00000e+000	-7.96645e+000	4.80487e-001	-2.36660e-004
DinBSulfone	564.00	989.93	10.15	0.00000e+000	9.99258e+000	4.43412e-001	-1.63210e-004
DEGDiEEther	462.15	912.32	10.31	0.00000e+000	-3.62037e+001	5.46541e-001	-2.97958e-004
TEGDiMEther	489.15	990.81	9.67	0.00000e+000	-1.84210e+001	5.30901e-001	-2.69019e-004
tOctylMercap	429.00	848.97	10.81	0.00000e+000	-2.58343e+001	4.94226e-001	-2.33060e-004
OctMCyTrSiln	448.15	949.42	9.81	0.00000e+000	-6.99482e+000	6.74314e-001	-2.72019e-004
ToIdiIsoCyan	524.15	1224.88	8.01	0.00000e+000	1.75386e+001	1.97368e-001	2.69100e-004
8HyQuinoline	540.00	1171.30	8.46	0.00000e+000	-6.53830e+001	4.95195e-001	-3.24604e-004
AcetVanillon	570.65	1074.91	9.39	0.00000e+000	3.41052e+001	2.35385e-001	1.44017e-004
EVanillin	567.00	1145.00	8.79	0.00000e+000	-3.82749e+001	4.65877e-001	-2.28849e-004
DPGMMEAcetat	482.45	984.55	9.69	0.00000e+000	-9.45704e+001	7.99887e-001	-6.08201e-004
DMIPthalate	555.15	1214.18	8.23	0.00000e+000	-2.68746e+001	3.33025e-001	3.68221e-005
DMPthalate	556.85	1197.31	8.36	0.00000e+000	-3.93242e+001	3.91067e-001	-4.75973e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
2(2EyEy)C2ol	7.59001e-008	-1.25001e-011	1.00000e+000	-0.25214	-1.04111	Misc	-3420000
TriEAluminum	2.98851e-008	-2.26795e-012	1.00000e+000	-0.02259	-0.48942	Misc	-4820170
EAlSesquiCl	7.47455e-008	-1.02693e-011	1.00000e+000	0.62179	0.53587	Misc	
6AminoC6ol	3.23239e-008	-4.35629e-012	1.00000e+000	-0.90625	-2.42349	Misc	-3849990
nAminoEPipez	2.97637e-008	-1.27191e-012	1.00000e+000	-0.48480	-1.33491	Misc	-4135000
TEPhosphate	4.04093e-008	-2.90155e-012	1.00000e+000	-0.56630	-0.55162	Misc	-3848600
HexMDiSiloxn	-4.83789e-008	1.53878e-011	1.00000e+000	0.10208	-0.30232	Misc	-5542400
HexMDiSilazn	7.66129e-009	3.84754e-012	1.00000e+000	0.09374	-0.35369	Misc	-5960000
4Cl3NitroBZ	1.56256e-021	-6.20622e-025	1.00000e+000	-0.39808	-1.09177	Misc	-2418740
3NitroTriFBZ	-1.63784e-007	4.37598e-011	1.00000e+000	-0.38511	-0.89863	Misc	-2580000
BenzoylCl	3.51022e-008	-3.70578e-012	1.00000e+000	-0.29220	-0.47959	Misc	-3205000
BenzoTriCl	1.25694e-007	-2.70582e-011	1.00000e+000	-0.22682	-0.51999	Misc	-3289990
PHIsoCyanate	3.39952e-008	-3.09183e-012	1.00000e+000	0.41589	0.46278	Misc	-3360000
Tetryl	-8.06832e-008	4.45495e-011	1.00000e+000	-0.11754	-2.88716	Misc	-3385500
25NitroTolue	-2.96611e-021	6.89664e-025	1.00000e+000	-0.75367	-1.24319	Misc	-3446000
26NitroTolue	-2.80603e-021	7.26446e-025	1.00000e+000	0.22658	-0.25548	Misc	-3429000
34NitroTolue	-7.06216e-022	-2.66670e-025	1.00000e+000	0.11643	-0.21262	Misc	-3465990
35NitroTolue	6.68551e-022	-8.00010e-025	1.00000e+000	-0.71365	-1.17026	Misc	-3437000
Formalinide	6.34068e-008	-7.84089e-012	1.00000e+000	-0.86078	-1.61494	Misc	-3449990
mNitroToluen	3.40314e-022	-6.23133e-026	1.00000e+000	-0.83696	-1.13537	Misc	-3569990
oNitroToluen	7.84140e-021	-1.44705e-024	1.00000e+000	-0.30969	-0.62730	Misc	-3590000
pNitroToluen	4.25392e-021	-9.69318e-025	1.00000e+000	-0.06365	-0.32034	Misc	-3550000
oNitroAnisol	3.45183e-021	-6.80371e-025	1.00000e+000	0.06178	-0.24583	Misc	-3440000
Guaiacol	5.70788e-008	-3.88129e-012	1.00000e+000	-0.30976	-0.84802	Misc	-3470000
pMethoxyPHnl	9.97676e-008	-1.65644e-011	1.00000e+000	-0.37147	-1.05701	Misc	-3400000
BZIMercaptan	7.17769e-008	-1.03292e-011	1.00000e+000	-0.33209	-0.45074	Misc	-4059990
CC6IsoCyanat	-1.22027e-007	3.32261e-011	1.00000e+000	0.41940	0.44646	Misc	-3849990
E3EthxyC3ate	2.26257e-007	-4.87453e-011	1.00000e+000	-0.16944	-0.65158	Misc	-3760000
PGlyTBEther	5.91025e-008	-2.32734e-013	1.00000e+000	-0.40077	-1.72959	Misc	-4079000
IsoPhtaylCl	2.49098e-008	-2.43799e-012	1.00000e+000	0.45741	0.44141	Misc	-3329990
Vanillin	5.90347e-008	-1.12141e-011	1.00000e+000	-1.31110	-2.08940	Misc	-3660000
pPhenetidine	1.09632e-007	-1.85529e-011	1.00000e+000	-0.49242	-1.12020	Misc	-4309990
ButyricAnhyd	4.59836e-008	-8.51687e-012	1.00000e+000	0.02246	-0.40443	Misc	-4120000
DiESuccinate	2.20155e-007	-4.27706e-011	1.00000e+000	-0.72425	-1.32316	Misc	-3920000
DiEGEEther	1.59437e-007	-2.84387e-011	1.00000e+000	-0.21624	-0.79089	Misc	-4240000
DitBPeroxide	7.04379e-008	-9.95830e-012	1.00000e+000	0.41510	0.45255	Misc	-4940000
DinBSulfone	2.64222e-008	5.16673e-013	1.00000e+000	-0.36208	-0.96827	Misc	-5010000
DEGDiEEther	1.03440e-007	-1.72370e-011	1.00000e+000	0.19003	-0.22265	Misc	-4690000
TEGDiMEther	8.46527e-008	-1.30263e-011	1.00000e+000	0.05628	-0.57888	Misc	-4579980
tOctylMercap	5.57601e-008	-4.67436e-012	1.00000e+000	-0.00592	-0.41420	Misc	-5370000
OctMCyTrSiln	4.58658e-008	-1.93308e-013	1.00000e+000	0.20836	-0.48253	Misc	-7368000
ToIdiIsoCyan	-3.80056e-007	1.38558e-010	1.00000e+000	-0.07527	-0.43903	Misc	-3969990
8HyQuinoline	1.21140e-007	-1.94911e-011	1.00000e+000	0.43370	0.45790	Misc	-4300000
AcetVanillon	-2.53123e-007	9.54026e-011	1.00000e+000	-1.61599	-2.87934	Misc	-4245000
EVanillin	6.64613e-008	-1.13631e-011	1.00000e+000	-1.39663	-3.03803	Misc	-4250000
DPGMMEAcetat	2.89652e-007	-6.05663e-011	1.00000e+000	-0.10725	-0.94102	Misc	-4839000
DMIPthalate	-1.63522e-007	6.29114e-011	1.00000e+000	-0.68643	-1.14573	Misc	-4413590
DMPthalate	-1.07418e-007	4.85698e-011	1.00000e+000	-0.78960	-1.50495	Misc	-4408900

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
AAcetanilide	961	177.203	803.00	30.30000	0.53400	0.56346	0.80036	0.80036
DiAlyMaleate	962	196.203	693.00	23.30000	0.60600	0.65401	0.78860	0.78860
DiPMaleate	963	200.235	691.00	22.00000	0.61400	0.69981	0.78154	0.78154
pMethaneHypo	964	172.268	711.00	29.50000	0.55300	0.68623	0.90074	0.90074
TPGMMEther	965	206.281	657.00	21.80000	0.65200	0.83837	1.12539	1.12539
TetraEGMEthr	966	222.281	705.00	19.40000	0.67400	0.83969	0.96520	0.96520
DecMCPentSil	967	370.773	619.15	11.60000	1.21598	1.29271	0.66582	0.66582
ptAmylPhenol	968	164.246	751.00	29.80000	0.54600	0.57578	0.56914	0.56914
DiBZThiphen	969	184.261	897.00	38.60000	0.51200	0.52404	0.39828	0.39828
oNtrDiPHAmin	970	214.223	835.00	28.70000	0.62300	0.68242	0.76690	0.76690
pAminDiPhnyl	971	169.225	817.00	32.90000	0.53900	0.56435	0.54539	0.54539
pAminoAzoBZ	972	197.240	877.00	29.00000	0.64200	0.67432	0.63449	0.63449
pAminoDiPHAm	973	184.240	867.00	31.90000	0.59600	0.65180	0.69402	0.69402
Benzidine	974	184.240	929.00	33.00000	0.59600	0.64297	0.73574	0.73574
HyAzoBenzene	975	184.240	792.00	30.90000	0.55600	0.60089	0.68002	0.68002
DiEPthalate	976	222.240	757.00	23.30000	0.63500	0.72427	0.76256	0.76256
Bs2HyETereph	977	254.240	846.00	24.70000	0.65600	0.81742	1.60351	1.60351
DHP	978	194.274	812.00	24.60000	0.68800	0.80757	0.96261	0.96261
DiBMaleate	979	228.287	716.00	19.00000	0.71900	0.86154	0.89939	0.89939
Sucrose	980	342.299	1063.00	26.90000	0.76100	0.78015	0.36961	0.36961
tC12Mrcaptan	981	202.404	691.00	18.60000	0.77100	0.80196	0.60976	0.60976
TrinBBorate	982	230.156	743.15	19.89000	0.86330	0.82332	0.18871	0.18871
Acridine	983	179.220	905.00	36.40000	0.54300	0.53195	0.43828	0.43828
BzylPeroxyde	984	242.231	884.00	25.70000	0.70100	0.76683	0.91359	0.91359
26tBpCresol	985	220.354	720.00	21.10000	0.75700	0.81036	0.68578	0.68578
DiiBPhthlate	986	278.346	762.00	17.80000	0.89100	1.02400	0.91584	0.91584
TriPHPhosphi	987	262.290	1008.00	78.40000	0.55400	0.85902	0.45166	0.45166
DiHxAdipate	988	314.466	767.00	13.20000	1.04999	1.37056	1.09349	1.09349
DiiC8Phthala	989	390.562	851.00	11.80000	1.41998	1.65682	1.08797	1.08797
o-Hydrogen	990	2.016	33.26	13.19700	0.06410	0.07010	-0.21440	-0.21440
p-Hydrogen	991	2.016	32.98	12.92800	0.06414	0.06963	-0.22075	-0.22075
F3AcetoNitri	992	95.023	311.10	36.20000	0.20200	0.29591	0.26699	0.26699
AcetoNitrile	993	41.053	545.50	48.20000	0.17294	0.15354	0.32699	0.30759
AcryloNitril	994	53.064	536.00	45.60000	0.20995	0.19280	0.34999	0.33689
C3-Nitrile	995	55.080	564.40	41.70000	0.22900	0.20870	0.31299	0.31299
C4-Nitrile	996	69.107	582.20	37.70000	0.28499	0.26530	0.37299	0.37299
CaproNitrile	997	97.161	622.00	32.50000	0.39800	0.38824	0.52398	0.52398
BZ-Nitrile	998	103.124	699.40	42.20000	0.35199	0.32515	0.36199	0.35659
CapryloNitri	999	153.268	688.60	26.80000	0.59399	0.68717	0.85698	0.85698
SuccinoNitri	1000	80.089	770.00	35.20000	0.30000	0.27952	0.55851	0.55851
M-acrylNitri	1001	67.091	585.00	39.50000	0.26499	0.25470	0.38999	0.38999
i-B-Nitrile	1002	69.106	565.00	37.60000	0.27799	0.26596	0.33836	0.33836
ValeroNitril	1003	83.133	602.00	32.60000	0.33100	0.32185	0.41516	0.41516
AdipoNitrile	1004	108.138	770.00	28.30000	0.40599	0.40048	0.67229	0.67229
t-CrotoNitril	1005	67.090	586.00	38.70000	0.28200	0.25217	0.39770	0.39770
Lactonitrile	1006	71.078	643.00	50.30000	0.24300	0.25306	0.78858	0.78858
cisCrotonitr	1007	67.090	568.00	38.80000	0.26500	0.24463	0.37871	0.37871
MAcryNitrile	1008	67.090	554.00	38.80000	0.26500	0.24478	0.30127	0.30127

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
AAcetanilide	592.00	1099.94	9.29	0.00000e+000	-8.92976e+001	5.83849e-001	-3.77481e-004
DiAlyMaleate	520.00	1081.42	9.05	0.00000e+000	-6.23827e+001	7.36579e-001	-5.77836e-004
DiPMaleate	521.00	1028.31	9.52	0.00000e+000	-3.31269e+001	6.63050e-001	-4.64191e-004
pMethaneHypo	532.00	944.46	10.44	0.00000e+000	-2.32960e+001	6.03007e-001	-3.17245e-004
TPGMMEther	515.55	974.23	10.01	0.00000e+000	-8.86480e+001	8.65933e-001	-6.47566e-004
TetraEGMEthr	548.95	1014.70	9.82	0.00000e+000	-6.73925e+001	7.55753e-001	-4.33895e-004
DecMCPentSil	484.10	963.96	9.91	0.00000e+000	-6.08824e+000	8.30443e-001	-3.18823e-004
ptAmylPhenol	535.15	911.14	10.84	0.00000e+000	-7.52309e+001	6.36956e-001	-3.78020e-004
DiBZThiphen	604.61	1124.88	9.14	0.00000e+000	-1.35325e+002	6.29893e-001	-3.54822e-004
oNtrDiPHAmin	616.00	1096.31	9.44	0.00000e+000	-2.36498e+001	4.99761e-001	-2.07936e-004
pAminDiPhnyl	575.00	1003.09	10.08	0.00000e+000	-1.00619e+002	6.46358e-001	-4.21008e-004
pAminoAzoBZ	633.00	969.18	10.78	0.00000e+000	-1.72675e+002	9.14789e-001	-6.97500e-004
pAminoDiPHAm	627.15	979.77	10.63	0.00000e+000	-1.14852e+002	7.10652e-001	-4.61055e-004
Benzidine	674.85	987.32	10.81	0.00000e+000	-9.92263e+001	7.15922e-001	-4.96805e-004
HyAzoBenzene	573.00	990.53	10.20	0.00000e+000	-1.21438e+002	7.06148e-001	-4.61171e-004
DiEPthalate	567.15	1122.26	8.97	0.00000e+000	-1.24914e+002	7.44137e-001	-4.65513e-004
Bs2HyETereph	683.00	1335.31	8.02	0.00000e+000	-5.21472e+001	5.52708e-001	-1.38016e-004
DHP	620.00	955.60	10.86	0.00000e+000	-3.50290e+001	5.92856e-001	-2.64110e-004
DiBMaleate	553.15	998.33	10.00	0.00000e+000	7.09210e+001	4.49522e-001	-1.23079e-004
Sucrose	735.00	1514.32	7.25	0.00000e+000	-5.91537e+001	8.65596e-001	-3.89112e-004
tC12Mrcaptan	515.65	861.14	11.33	0.00000e+000	-1.56817e+001	6.36836e-001	-2.49975e-004
TrinBBorate	506.65	862.14	11.25	0.00000e+000	-6.74797e+001	7.68302e-001	-3.27807e-004
Acridine	619.15	1075.54	9.64	0.00000e+000	-5.91014e+001	4.90993e-001	-2.26781e-004
BzylPeroxyde	669.00	1145.18	9.29	0.00000e+000	-1.16094e+002	5.93575e-001	-2.49030e-004
26tBpCresol	538.15	895.51	11.05	0.00000e+000	-8.80246e+001	8.54894e-001	-4.75326e-004
DiiBPhthlate	593.15	1046.56	9.77	0.00000e+000	-1.00457e+002	8.10324e-001	-3.06924e-004
TriPHPhosphi	650.15	1072.91	9.82	0.00000e+000	-1.46600e+002	9.23953e-001	-5.95383e-004
DiHxAdipate	621.15	940.39	11.04	0.00000e+000	-7.64844e+001	1.04861e+000	-6.52492e-004
DiiC8Phthala	694.00	989.38	10.89	0.00000e+000	-7.42076e+001	1.10175e+000	-3.87331e-004
o-Hydrogen	20.43	70.55	47.14	0.00000e+000	2.17634e+001	4.00497e-002	-7.70173e-005
p-Hydrogen	20.27	70.84	46.82	0.00000e+000	3.37999e+001	-1.07984e-002	1.15881e-005
F3AcetoNitri	205.50	845.59	8.49	0.00000e+000	2.21442e+001	1.26031e-001	-7.87485e-005
AcetoNitrile	354.80	782.00	11.01	0.00000e+000	2.04878e+001	5.98376e-002	-1.49832e-005
AcryloNitril	350.50	805.00	10.65	0.00000e+000	1.06959e+001	1.10473e-001	-5.22003e-005
C3-Nitrile	370.30	782.00	11.17	0.00000e+000	1.54086e+001	1.12319e-001	-3.66897e-005
C4-Nitrile	391.10	792.00	11.23	0.00000e+000	1.52194e+001	1.60404e-001	-5.46352e-005
CaproNitrile	436.80	809.00	11.41	0.00000e+000	1.76338e+001	2.51049e-001	-8.83430e-005
BZ-Nitrile	464.30	1000.00	9.42	0.00000e+000	-2.60666e+001	2.86792e-001	-1.47763e-004
CapryloNitri	516.00	820.00	11.90	0.00000e+000	3.57957e+001	4.16823e-001	-1.42181e-004
SuccinoNitri	540.15	988.30	10.02	0.00000e+000	1.23674e+001	1.71139e-001	-8.46311e-005
M-acrylNitri	392.00	805.76	11.05	0.00000e+000	2.17140e+001	1.28683e-001	-3.97579e-005
i-B-Nitrile	376.76	775.37	11.33	0.00000e+000	2.02468e+001	1.52792e-001	-4.93428e-005
ValeroNitril	414.45	802.90	11.30	0.00000e+000	1.71412e+001	2.06254e-001	-7.28037e-005
AdipoNitrile	568.15	967.18	10.42	0.00000e+000	-1.34954e+001	3.23852e-001	-1.70561e-004
t-CrotoNitril	394.38	815.95	10.93	2.94493e-006	-7.44460e-001	1.68251e-001	-7.63493e-005
Lactonitrile	457.00	990.78	9.46	0.00000e+000	3.00493e+001	1.17962e-001	-3.38404e-005
cisCrotonitr	380.60	828.39	10.64	0.00000e+000	-7.39323e-001	1.58468e-001	-6.25375e-005
MAcryNitrile	363.45	804.73	10.79	0.00000e+000	2.86535e+001	1.18304e-001	-2.82552e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
AAcetanilide	1.56750e-007	-3.02007e-011	1.00000e+000	-0.05775	-1.87588	Misc	-4990000
DiAlyMaleate	2.65569e-007	-5.10310e-011	1.00000e+000	-0.00863	-0.59714	Misc	-4790000
DiPMaleate	2.09832e-007	-4.23277e-011	1.00000e+000	-0.28436	-0.72473	Misc	-5080000
pMethaneHypo	1.01097e-007	-1.49006e-011	1.00000e+000	0.53850	0.43797	Misc	-5950000
TPGMMEther	3.18108e-007	-7.08942e-011	1.00000e+000	-0.29641	-1.53094	Misc	-5711000
TetraEGMEthr	1.52455e-007	-2.47010e-011	1.00000e+000	-1.31560	-1.94307	Misc	-5640000
DecMCPentSil	4.38561e-008	2.73724e-012	1.00000e+000	0.24982	-0.52737	Misc	-9343800
ptAmylPhenol	1.33852e-007	-2.10200e-011	1.00000e+000	-1.33274	-2.77023	Misc	-6050000
DiBZThiphen	7.76004e-008	2.91451e-012	1.00000e+000	0.41110	0.46631	Misc	-6165000
oNtrDiPHAmin	2.87271e-008	3.46574e-012	1.00000e+000	0.48167	0.43053	Misc	-6120000
pAminDiPhnyl	1.60432e-007	-2.66081e-011	1.00000e+000	-0.44482	-0.84886	Misc	-6160000
pAminoAzoBZ	2.98507e-007	-5.35919e-011	1.00000e+000	0.45084	0.43624	Misc	-6380000
pAminoDiPHAm	1.73537e-007	-2.83315e-011	1.00000e+000	-0.70990	-1.20120	Misc	-6286420
Benzidine	2.02780e-007	-3.59270e-011	1.00000e+000	-0.81006	-1.14855	Misc	-6243980
HyAzoBenzene	1.75613e-007	-2.89933e-011	1.00000e+000	-0.46762	-1.37040	Misc	-6394600
DiEPthalate	1.70231e-007	-2.60579e-011	1.00000e+000	-0.65152	-1.32808	Misc	-5635990
Bs2HyETereph	-7.71654e-008	4.35465e-011	1.00000e+000	-1.44821	-3.65523	Misc	-5379990
DHP	6.25086e-008	-5.87082e-012	1.00000e+000	0.51677	0.41995	Misc	-6600000
DiBMaleate	-2.96844e-009	6.01201e-012	1.00000e+000	-0.00595	-0.61436	Misc	-6360000
Sucrose	8.10010e-008	-4.02260e-012	1.00000e+000	0.38191	0.45169	Misc	-5160540
tC12Mrcaptan	3.68141e-008	3.85568e-012	1.00000e+000	0.03286	-0.45050	Misc	-7824000
TrinBBorate	7.14466e-008	-5.51962e-012	1.00000e+000	-0.12052	-0.39124	Misc	
Acridine	4.87996e-008	-2.20054e-012	1.00000e+000	0.40459	0.45619	Misc	-6383410
BzylPeroxyde	3.96779e-008	1.75177e-012	1.00000e+000	0.49249	0.41761	Misc	-6349000
26tBpCresol	1.54655e-007	-2.22901e-011	1.00000e+000	0.06083	-0.70096	Misc	-8390000
DiiBPhthlate	-7.85314e-009	3.12221e-011	1.00000e+000	-1.03550	-1.95474	Misc	-8039990
TriPHPhosphi	2.25365e-007	-3.69357e-011	1.00000e+000	0.60218	0.52967	Misc	-10031500
DiHxAdipate	2.56007e-007	-4.49076e-011	1.00000e+000	-0.23422	-0.79309	Misc	-10100000
DiiC8Phthala	2.63174e-008	1.18781e-011	1.00000e+000	-1.56596	-2.26194	Misc	-12950000
o-Hydrogen	6.32067e-008	-1.78638e-011	1.00000e+000	0.00741	0.29260	Misc	-163880
p-Hydrogen	-5.56508e-009	1.10739e-012	1.00000e+000	0.00296	0.28330	Misc	-241820
F3AcetoNitri	2.05305e-008	4.70149e-025	1.00000e+000	0.07112	-0.34955	Nitrile	
AcetoNitrile	8.01256e-010	-2.01047e-025	1.00000e+000	0.08685	-0.07504	Nitrile	-1190430
AcryloNitril	1.15098e-008	1.63421e-025	1.00000e+000	0.08080	-0.05944	Nitrile	-1680000
C3-Nitrile	4.88820e-009	5.28358e-026	1.00000e+000	0.03339	-0.15351	Nitrile	-1800670
C4-Nitrile	7.45969e-009	-1.32583e-025	1.00000e+000	-0.01010	-0.31316	Nitrile	-2414800
CaproNitrile	1.32359e-008	1.56972e-025	1.00000e+000	-0.06326	-0.44980	Nitrile	-3636000
BZ-Nitrile	3.37468e-008	1.50987e-025	1.00000e+000	-0.05155	-0.27652	Nitrile	-3522400
CapryloNitri	2.79520e-008	-5.26188e-025	1.00000e+000	-0.02128	-0.73579	Nitrile	
SuccinoNitri	1.93166e-008	-1.69826e-025	1.00000e+000	0.33065	-0.14056	Nitrile	-2197400
M-acrylNitri	3.07437e-009	3.38723e-027	1.00000e+000	0.00820	-0.19291	Nitrile	-2243000
i-B-Nitrile	6.26811e-009	-3.48898e-026	1.00000e+000	0.07707	-0.20171	Nitrile	-2408400
ValeroNitril	1.10085e-008	1.59492e-025	1.00000e+000	0.09781	-0.19449	Nitrile	-3022900
AdipoNitrile	3.92487e-008	-2.40221e-025	1.00000e+000	0.27145	-0.25418	Nitrile	-3413500
t-CrotoNitril	1.73648e-008	-1.42587e-012	1.00000e+000	0.23955	-0.07434	Nitrile	-2279000
Lactonitrile	2.90888e-009	4.48635e-013	1.00000e+000	-0.77753	-1.84405	Nitrile	-1650000
cisCrotonitr	9.42620e-009	3.69027e-013	1.00000e+000	0.03579	-0.20743	Nitrile	-2283000
MAcryNitrile	-4.20745e-009	2.38818e-012	1.00000e+000	-0.22064	-0.43112	Nitrile	-2243000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
VAcetNitrile	1009	67.090	584.00	38.80000	0.25900	0.24399	0.37845	0.37845
22IminoBisAN	1010	95.104	731.00	35.40000	0.35700	0.33271	0.71920	0.71920
Piperazine	1011	86.137	638.00	55.30000	0.31000	0.36830	0.41376	0.41376
GltarNitrile	1012	94.116	782.00	31.50000	0.35200	0.33373	0.60325	0.60325
PHAcetNitril	1013	117.150	732.00	34.60000	0.39100	0.38219	0.47150	0.47150
23-Xylenol	1014	122.166	722.80	48.60000	0.46998	0.43478	0.51099	0.51099
24-Xylenol	1015	122.166	707.60	43.60000	0.50998	0.41609	0.51327	0.51327
25-Xylenol	1016	122.166	706.90	48.60000	0.46998	0.42434	0.56326	0.56326
26-Xylenol	1017	122.166	700.00	42.60000	0.51999	0.44892	0.45533	0.45533
34-Xylenol	1018	122.166	720.00	50.00000	0.34999	0.41310	0.57300	0.57300
35-Xylenol	1019	122.166	715.60	33.50000	0.61000	0.41277	0.49107	0.49107
m-Cresol	1020	108.138	705.80	45.60000	0.30899	0.34200	0.45399	0.45399
o-Cresol	1021	108.138	697.60	50.10000	0.28200	0.33928	0.43299	0.43299
p-Cresol	1022	108.138	704.60	51.50000	0.27700	0.34907	0.50498	0.50498
ptrbtylphenl	1023	150.220	734.00	33.20000	0.49300	0.51467	0.50989	0.50989
BisPhenol	1024	228.291	849.00	29.30000	0.67698	0.87458	0.94498	0.94498
NonylPhenol	1025	220.354	757.00	20.70000	0.74700	0.80596	0.89980	0.61920
pCumylPhenol	1026	212.291	834.00	26.80000	0.65900	0.68691	0.66020	0.54397
ptC8Phenol	1027	206.328	765.00	22.80000	0.70400	0.73652	0.63130	0.63130
DEAmine	1028	105.138	715.26	32.72900	0.37656	0.37983	1.04674	1.04674
DIsoPAmine	1029	133.190	672.40	37.70000	0.41499	0.50642	0.98000	0.98000
Methylamine	1030	31.058	420.00	74.20000	0.12996	0.12229	0.29199	0.28720
Ethylamine	1031	45.085	456.40	56.20000	0.18197	0.17720	0.28900	0.28709
diMethylamin	1032	45.085	437.70	53.10000	0.18197	0.18118	0.30199	0.30439
nPropylamine	1033	59.112	497.00	47.20000	0.23296	0.23025	0.30300	0.30300
iPropylamine	1034	59.112	471.80	45.20000	0.22100	0.23420	0.29100	0.29100
triMthylamin	1035	59.112	433.30	40.70000	0.25400	0.24421	0.20498	0.20498
n-Butylamine	1036	73.139	531.90	42.00000	0.28999	0.28468	0.32899	0.32899
i-Butylamine	1037	73.139	514.30	41.00000	0.28999	0.28806	0.36800	0.36800
sec-Btylamin	1038	73.138	514.30	40.00000	0.31000	0.28531	0.28152	0.28152
trt-Btylamin	1039	73.138	483.90	38.20000	0.29300	0.29045	0.27483	0.27483
diE-M-Amine	1040	87.170	512.41	33.91500	0.33671	0.35271	0.28659	0.28659
B-M-Amine	1041	87.170	537.00	33.20000	0.35699	0.36495	0.34970	0.34970
diPropylamin	1042	101.193	555.80	29.80000	0.41600	0.41716	0.47099	0.47099
di-iP-Amine	1043	101.193	523.10	30.10000	0.41800	0.40926	0.36000	0.36000
triEthylamin	1044	101.193	535.00	30.30000	0.38899	0.40259	0.31999	0.31959
Caprolactam	1045	113.152	805.00	47.70000	0.40200	0.36278	0.47710	0.47710
diButylamine	1046	129.246	607.50	26.30000	0.52398	0.55128	0.57999	0.57999
di-iB-Amine	1047	129.246	584.40	27.10000	0.52398	0.55664	0.54799	0.54799
triButylamin	1048	185.354	642.00	18.10000	0.73500	0.81348	0.69428	0.69428
Aniline	1049	93.129	699.00	53.10000	0.27399	0.29010	0.38400	0.38089
n-M-Aniline	1050	107.152	700.00	52.00000	0.41699	0.35683	0.47499	0.47499
nn-diM-Anili	1051	121.180	687.00	36.20000	0.41400	0.40784	0.41100	0.41100
n-E-Aniline	1052	121.180	697.00	40.00000	0.41400	0.41804	0.48342	0.48342
n-B-Aniline	1053	149.235	720.00	28.30000	0.53500	0.54132	0.54163	0.54163
Pentylamine	1054	87.165	555.00	35.70000	0.36500	0.34678	0.40700	0.40700
Hexylamine	1055	101.192	582.00	31.80000	0.41800	0.41095	0.46707	0.46707
Pyridine	1056	79.102	620.00	56.20000	0.25400	0.23958	0.24300	0.24300

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
VAcetNitrile	391.67	837.99	10.62	0.00000e+000	2.22504e+001	1.24620e-001	-3.65899e-005
22IminoBisAN	527.00	981.39	10.01	0.00000e+000	1.98750e+001	1.98622e-001	-1.06447e-004
Piperazine	419.15	665.81	13.67	0.00000e+000	-5.96578e+001	3.80240e-001	-1.96683e-004
GltarNitrile	559.15	989.17	10.13	0.00000e+000	1.89484e+001	1.98298e-001	-8.13218e-005
PHAcetNitril	506.65	1018.96	9.52	0.00000e+000	-2.41945e+001	3.17198e-001	-1.59108e-004
23-Xylenol	490.10	942.02	10.18	0.00000e+000	9.74634e+000	3.14496e-001	-1.27569e-004
24-Xylenol	484.10	979.89	9.75	0.00000e+000	-4.14533e+000	3.28113e-001	-1.34422e-004
25-Xylenol	484.30	974.64	9.80	0.00000e+000	-3.94584e-002	3.21358e-001	-1.29346e-004
26-Xylenol	474.20	891.32	10.64	0.00000e+000	-1.55311e+000	3.21116e-001	-1.28888e-004
34-Xylenol	500.10	1011.90	9.54	0.00000e+000	3.54812e+000	3.27310e-001	-1.37659e-004
35-Xylenol	494.90	984.17	9.78	0.00000e+000	-1.12813e+001	3.35733e-001	-1.38249e-004
m-Cresol	475.40	1036.93	9.16	0.00000e+000	-4.50372e+001	3.63433e-001	-2.01095e-004
o-Cresol	464.20	1036.06	9.09	0.00000e+000	-3.22997e+001	3.50475e-001	-1.97595e-004
p-Cresol	475.10	1030.31	9.21	0.00000e+000	-4.06545e+001	3.52979e-001	-1.92021e-004
ptrbtlyphenl	512.88	981.80	9.92	0.00000e+000	-7.37103e+001	5.86477e-001	-3.53295e-004
BisPhenol	633.65	1041.06	10.04	0.00000e+000	-1.17235e+002	8.72008e-001	-5.79535e-004
NonylPhenol	581.00	956.69	10.61	4.22249e-005	-5.21587e+001	7.55898e-001	-3.78960e-004
pCumylPhenol	608.15	1079.30	9.55	2.51917e-005	-1.06825e+002	7.66182e-001	-4.42502e-004
ptC8Phenol	563.60	924.47	10.87	0.00000e+000	-1.03994e+002	8.49999e-001	-5.01354e-004
DEAmine	542.15	1095.00	9.06	0.00000e+000	-5.33502e+000	1.77065e-001	-8.63340e-005
DIsoPAmine	521.90	999.00	9.80	0.00000e+000	2.81867e+001	3.62459e-001	-1.46620e-004
Methylamine	266.80	667.43	11.73	0.00000e+000	1.14874e+001	7.13968e-002	-1.77911e-005
Ethylamine	289.70	607.32	13.25	0.00000e+000	3.69537e+000	1.37690e-001	-5.28002e-005
diMethylamin	270.00	660.94	11.90	0.00000e+000	-1.72114e-001	1.34837e-001	-4.43285e-005
nPropylamine	321.70	724.12	11.51	0.00000e+000	6.69478e+000	1.75015e-001	-6.07735e-005
iPropylamine	305.60	693.97	11.81	0.00000e+000	-7.49054e+000	2.08887e-001	-9.42610e-005
triMthylamin	276.00	640.18	12.37	0.00000e+000	-8.21058e+000	1.98731e-001	-7.40140e-005
n-Butylamine	349.50	748.94	11.44	0.00000e+000	5.08230e+000	2.23946e-001	-8.02817e-005
i-Butylamine	340.60	737.97	11.51	0.00000e+000	9.49636e+000	2.21647e-001	-7.03778e-005
sec-Btylamin	336.15	729.26	11.60	0.00000e+000	7.26370e+000	2.18302e-001	-7.28082e-005
trt-Btylamin	317.55	697.66	11.90	0.00000e+000	1.32014e+001	2.16975e-001	-7.32550e-005
diE-M-Amine	339.15	702.00	12.08	0.00000e+000	-1.26222e+001	2.78769e-001	-7.33950e-005
B-M-Amine	364.25	703.38	12.35	0.00000e+000	-2.86717e+000	2.77534e-001	-9.89385e-005
diPropylamin	382.50	745.29	11.85	0.00000e+000	6.46401e+000	3.14857e-001	-1.13075e-004
di-iP-Amine	357.10	722.00	11.95	0.00000e+000	-1.53409e+001	3.50374e-001	-1.34025e-004
triEthylamin	362.50	732.94	11.83	0.00000e+000	-1.84414e+001	3.57989e-001	-1.46494e-004
Caprolactam	543.15	1060.56	9.36	0.00000e+000	-7.10600e-001	9.84573e-002	2.95911e-004
diButylamine	432.80	764.36	12.04	0.00000e+000	9.77003e+000	4.04314e-001	-1.46493e-004
di-iB-Amine	412.80	740.00	12.24	0.00000e+000	-2.12480e+001	4.57832e-001	-1.81954e-004
triButylamin	486.60	781.27	12.25	0.00000e+000	7.99784e+000	5.99398e-001	-2.23576e-004
Aniline	457.60	1024.41	9.15	0.00000e+000	-4.05109e+001	3.19462e-001	-1.71210e-004
n-M-Aniline	469.40	989.00	9.56	0.00000e+000	-1.71711e+001	2.92300e-001	-1.08181e-004
nn-diM-Anili	467.30	956.35	9.87	0.00000e+000	-6.03731e+001	4.06741e-001	-1.74853e-004
n-E-Aniline	476.20	955.00	9.95	0.00000e+000	-1.55171e+001	3.37022e-001	-1.24885e-004
n-B-Aniline	513.90	932.00	10.45	0.00000e+000	-3.40910e+001	4.57495e-001	-1.85450e-004
Pentylamine	377.65	758.95	11.59	0.00000e+000	4.95409e+000	2.65078e-001	-9.14361e-005
Hexylamine	404.65	768.05	11.72	0.00000e+000	3.66001e+001	2.44816e-001	-5.39413e-005
Pyridine	388.40	988.77	8.98	0.00000e+000	-2.24841e+001	2.04482e-001	-7.55805e-005

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
VAcetNitrile	3.97010e-010	1.50898e-012	1.00000e+000	0.01334	-0.20154	Nitrile	-2296500
22IminoBisAN	3.55293e-008	-5.50356e-012	1.00000e+000	0.34506	-0.13931	Nitrile	-2361990
Piperazine	4.40490e-008	-1.78657e-012	1.00000e+000	-0.31436	-0.60482	Nitrile	-2737990
GltarNitrile	1.54583e-008	-8.84587e-013	1.00000e+000	-0.56729	-1.07168	Nitrile	-2800000
PHAcetNitril	4.47336e-008	-5.27337e-012	1.00000e+000	-0.01683	-0.33451	Nitrile	-4153100
23-Xylenol	2.21719e-008	4.31747e-025	1.00000e+000	-0.64212	-1.84123	Phenol	-4115950
24-Xylenol	2.35529e-008	-3.70068e-026	1.00000e+000	-0.55017	-1.75768	Phenol	-4128430
25-Xylenol	2.21933e-008	2.46712e-025	1.00000e+000	-0.32802	-0.83103	Phenol	-4110560
26-Xylenol	2.20971e-008	8.63493e-026	1.00000e+000	-0.47850	-1.77076	Phenol	-4119790
34-Xylenol	2.48899e-008	4.56418e-025	1.00000e+000	-0.29304	-0.93076	Phenol	-4114840
35-Xylenol	2.42930e-008	-9.86849e-026	1.00000e+000	-0.42239	-1.10218	Phenol	-4112780
m-Cresol	5.19572e-008	-3.27574e-026	1.00000e+000	-1.46063	-2.46392	Phenol	-3527830
o-Cresol	5.31300e-008	-3.27574e-026	1.00000e+000	-1.19593	-2.07259	Phenol	-3517350
p-Cresol	4.92046e-008	7.64340e-026	1.00000e+000	-1.46414	-2.50482	Phenol	-3522550
ptrbtylphenl	1.25404e-007	-1.95997e-011	1.00000e+000	-1.24026	-2.77023	Phenol	-5360000
BisPhenol	2.24870e-007	-3.74308e-011	1.00000e+000	0.49904	-0.44299	Phenol	-7464800
NonylPhenol	1.11756e-007	-1.47695e-011	1.00000e+000	-1.19456	-3.16604	Phenol	-8420000
pCumylPhenol	1.47059e-007	-2.12461e-011	1.00000e+000	-1.84347	-2.80857	Phenol	-7690000
ptC8Phenol	1.74027e-007	-2.66295e-011	1.00000e+000	-1.00399	-1.43780	Phenol	-8460000
DEAmine	7.24961e-022	-1.90843e-025	1.00000e+000	-0.63568	-2.11034	Amine	
DIsoPAmine	4.70097e-008	9.41413e-026	1.00000e+000	-0.02061	-0.82336	Amine	
Methylamine	1.18878e-009	-2.19524e-026	1.00000e+000	0.05133	-0.09537	Amine	
Ethylamine	9.52601e-009	-2.77697e-025	1.00000e+000	0.08054	-0.10980	Amine	-1587370
diMethylamin	5.85102e-009	2.13963e-025	1.00000e+000	0.09099	-0.03800	Amine	-1614560
nPropylamine	8.97053e-009	-3.64095e-025	1.00000e+000	-0.17426	-0.61088	Amine	-2164800
iPropylamine	2.08837e-008	1.79063e-025	1.00000e+000	0.10751	-0.28674	Amine	-2156500
triMthylamin	1.15622e-008	7.16253e-026	1.00000e+000	0.08995	-0.05455	Amine	-2244880
n-Butylamine	1.90098e-008	-2.06784e-025	1.00000e+000	0.02311	-0.28992	Amine	-2776290
i-Butylamine	5.83618e-009	-5.16960e-026	1.00000e+000	-0.11962	-0.63445	Amine	-2771500
sec-Btylamin	9.23484e-009	-6.64655e-026	1.00000e+000	-0.00196	-0.24921	Amine	-2766450
trt-Btylamin	1.00414e-008	-1.03391e-025	1.00000e+000	0.00607	-0.26482	Amine	-2753620
diE-M-Amine	-1.80263e-023	7.04151e-026	1.00000e+000	0.38775	0.47722	Amine	
B-M-Amine	1.47005e-008	3.52076e-026	1.00000e+000	-0.00236	-0.33825	Amine	
diPropylamin	1.76910e-008	-1.02179e-025	1.00000e+000	-0.15157	-0.50207	Amine	-4018900
di-iP-Amine	2.15549e-008	5.61984e-025	1.00000e+000	-0.00305	-0.33638	Amine	-3970000
triEthylamin	2.73178e-008	7.15252e-026	1.00000e+000	0.00085	-0.22493	Amine	-4040530
Caprolactam	-3.08997e-007	9.70469e-011	1.00000e+000	-0.11704	-0.95784	Amine	-3362100
diButylamine	2.31368e-008	-5.48122e-025	1.00000e+000	-0.03344	-0.39853	Amine	-5239600
di-iB-Amine	7.41664e-008	-5.74223e-025	1.00000e+000	-0.00936	-0.51007	Amine	
triButylamin	3.62480e-008	-3.93035e-025	1.00000e+000	-0.55905	-1.10950	Amine	-7690010
Aniline	4.08506e-008	7.52288e-026	1.00000e+000	-0.37198	-0.92105	Amine	-3238500
n-M-Aniline	1.34700e-008	1.40655e-025	1.00000e+000	-0.01519	-0.39070	Amine	
nn-diM-Anili	3.04879e-008	-3.05901e-026	1.00000e+000	0.04200	-0.24232	Amine	-4525000
n-E-Aniline	1.61872e-008	2.81429e-025	1.00000e+000	-0.01190	-0.44339	Amine	
n-B-Aniline	3.21957e-008	-3.46584e-025	1.00000e+000	-0.02318	-0.47947	Amine	
Pentylamine	1.32237e-008	-2.20035e-025	1.00000e+000	-0.01278	-0.36287	Amine	-3386000
Hexylamine	4.83064e-010	2.14573e-025	1.00000e+000	-0.01597	-0.41949	Amine	-4000000
Pyridine	5.46487e-009	2.77883e-012	1.00000e+000	-0.23589	-0.52836	Amine	-2672070

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
2-M-Pyridine	1057	93.129	621.00	46.00000	0.33500	0.29835	0.29899	0.29899
3-M-Pyridine	1058	93.129	645.00	46.50000	0.31099	0.29543	0.27063	0.27063
4-M-Pyridine	1059	93.129	645.00	46.60000	0.32570	0.29881	0.30098	0.30098
m-Toluidine	1060	107.152	709.00	41.50000	0.34999	0.34994	0.40999	0.40999
o-Toluidine	1061	107.152	694.00	37.50000	0.34999	0.34768	0.43799	0.43799
p-Toluidine	1062	107.152	667.00	23.80000	0.34999	0.35824	0.44299	0.44299
Ethylenimine	1063	43.068	537.00	68.50000	0.17294	0.18738	0.20069	0.20069
C2=diAmine	1064	60.099	592.00	62.70000	0.20600	0.16234	0.50998	0.50998
AllylAmine	1065	57.095	505.00	51.70000	0.24695	0.21297	0.32651	0.32651
Pyrrole	1066	67.091	639.80	72.50000	0.22400	0.40310	0.34419	0.34419
Pyrrolidine	1067	71.123	568.60	56.10000	0.24898	0.24086	0.27399	0.27399
nMPyrrolidin	1068	85.149	550.00	42.00000	0.29800	0.30048	0.22698	0.22698
nMPyrrolidon	1069	99.133	724.00	47.83000	0.31099	0.30862	0.36111	0.36111
Piperidine	1070	85.150	592.00	47.60000	0.28900	0.29146	0.25099	0.25099
CC6Amine	1071	99.176	615.00	42.00000	0.36000	0.35104	0.36037	0.36037
HPM-OX	1072	171.000	807.00	36.07100	0.45000	0.59688	0.95736	0.95736
THEED	1073	198.000	840.40	34.64300	0.59350	1.19298	1.85538	1.85538
HxC1=imine	1074	99.176	615.00	42.70000	0.36100	0.34345	0.32964	0.32964
HxC1=diAmine	1075	116.207	662.00	32.70000	0.47499	0.42598	0.65008	0.64178
Cumidine	1076	135.210	717.00	33.50000	0.43150	0.42050	0.47408	0.31117
Indole	1077	117.150	790.00	43.00000	0.43100	0.40097	0.37420	0.84627
UCARSOL	1078	123.392	697.25	38.58400	0.33680	0.25203	0.58000	-1.40441
Nicotine	1079	162.240	754.60	35.01000	0.48449	0.53671	0.46290	0.46290
Quinoline	1080	129.160	782.15	46.60000	0.46900	0.38158	0.32870	0.32870
i-Quinoline	1081	129.160	803.15	49.80000	0.40300	0.37930	0.28850	0.28850
Quinaldine	1082	143.188	772.00	29.60000	0.49000	0.42948	0.27950	0.27950
C3=imine	1083	57.095	529.00	54.20000	0.20800	0.20093	0.25659	0.25659
MethylEAmine	1084	75.111	630.00	52.20000	0.25300	0.26318	0.58549	0.58549
12C3Diamine	1085	74.126	587.00	52.70000	0.31600	0.26838	0.47381	0.47381
DMEthnlAmine	1086	89.137	571.82	41.40000	0.30000	0.33167	0.71096	0.71096
DiC2=TrAmine	1087	103.166	676.00	42.20000	0.34200	0.37358	0.70022	0.70022
MDEthnlAmine	1088	119.164	678.00	38.80000	0.36900	0.48713	1.30173	1.30173
mPhynDiamine	1089	108.139	824.00	51.80000	0.37700	0.32859	0.54318	0.54318
oPhnylDimine	1090	108.139	781.00	51.80000	0.31500	0.31646	0.49353	0.49353
TriC2=TetraA	1091	146.235	718.00	31.70000	0.48200	0.57338	0.97347	0.97347
BenzylAmine	1092	107.152	683.50	43.20000	0.37300	0.34939	0.40872	0.40872
26MPyridine	1093	107.152	623.75	37.80000	0.31600	0.35754	0.35025	0.35025
ToluenDiamin	1094	122.166	804.00	43.80000	0.37600	0.38183	0.57944	0.57944
nMCC6Amine	1095	113.203	622.00	34.90000	0.39300	0.40347	0.38551	0.38551
nC7Amine	1096	115.219	607.00	28.50000	0.47100	0.47304	0.51126	0.51126
oEAniline	1097	121.180	704.00	37.40000	0.39900	0.40446	0.46312	0.46312
246MPyridine	1098	121.180	653.00	33.30000	0.41700	0.41418	0.37585	0.37585
nOctylAmine	1099	129.246	627.00	25.80000	0.52400	0.53952	0.56796	0.56796
(C2=)4PAmine	1100	189.304	774.00	25.30000	0.63600	0.81844	1.23652	1.23652
nNonylAmine	1101	143.272	648.00	23.60000	0.57700	0.60691	0.61355	0.61355
nnDiEAiline	1102	149.235	702.00	28.50000	0.55600	0.51720	0.42618	0.42618
26DEAniline	1103	149.235	678.00	31.20000	0.49500	0.61976	0.95382	0.95382
nDecylAmine	1104	157.298	663.00	21.80000	0.62900	0.66837	0.66855	0.66855

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
2-M-Pyridine	402.60	948.98	9.47	0.00000e+000	-3.62829e+001	2.79383e-001	-1.23546e-004
3-M-Pyridine	417.30	961.09	9.46	0.00000e+000	-3.71126e+001	2.80186e-001	-1.24046e-004
4-M-Pyridine	418.50	958.29	9.50	0.00000e+000	-1.74400e+001	2.44260e-001	-9.33252e-005
m-Toluidine	476.60	992.87	9.57	0.00000e+000	-1.59978e+001	2.84226e-001	-1.01160e-004
o-Toluidine	473.50	1001.96	9.46	0.00000e+000	-1.16761e+001	2.97124e-001	-1.21833e-004
p-Toluidine	473.70	964.00	9.84	0.00000e+000	-1.58681e+001	2.94486e-001	-1.19455e-004
Ethylenimine	327.00	651.07	12.87	0.00000e+000	7.04974e-001	1.04241e-001	-2.88076e-005
C2=diAmine	390.40	1174.31	7.57	0.00000e+000	3.83220e+001	1.20426e-001	-1.44693e-005
AllylAmine	326.45	765.65	10.94	0.00000e+000	1.68716e+001	1.36960e-001	-4.53969e-005
Pyrrole	402.00	973.49	9.22	0.00000e+000	-1.44078e+001	1.77858e-001	-6.96626e-005
Pyrrolidine	359.60	868.41	9.96	0.00000e+000	-5.15448e+001	2.67077e-001	-1.08069e-004
nMPyrrolidin	352.30	814.79	10.54	0.00000e+000	-5.72892e+001	3.24962e-001	-1.32676e-004
nMPyrrolidon	475.15	1032.50	9.19	0.00000e+000	-5.56682e+001	3.23198e-001	-1.36657e-004
Piperidine	379.60	865.97	10.17	0.00000e+000	-5.30834e+001	3.14659e-001	-1.12007e-004
CC6Amine	407.65	870.57	10.36	0.00000e+000	-5.44357e+001	3.74221e-001	-1.42577e-004
HPM-OX	603.15	1141.26	9.01	-1.11214e-004	-2.84200e+001	5.33672e-001	-2.75088e-004
THEED	683.15	960.78	11.15	-2.20329e-004	-4.24298e-001	5.48864e-001	-2.27872e-004
HxC1=imine	404.85	882.57	10.20	0.00000e+000	-8.30865e+001	4.01629e-001	-1.58456e-004
HxC1=diAmine	475.04	700.96	13.54	0.00000e+000	2.16726e+001	3.13816e-001	-9.26700e-005
Cumidine	498.15	1017.45	9.48	-6.09416e-005	-2.00902e+001	3.93673e-001	-1.58854e-004
Indole	526.16	1108.95	8.86	-2.28366e-006	-4.78051e+001	3.55843e-001	-1.82649e-004
UCARSOL	492.25	1052.81	9.12	3.88811e+004	-1.08555e+002	3.60696e-001	-9.38497e-005
Nicotine	518.65	1009.40	9.68	0.00000e+000	-4.83232e+001	4.19700e-001	-1.19490e-004
Quinoline	510.75	1096.39	8.87	-9.39954e-007	-2.38614e+001	3.10197e-001	-1.03913e-004
i-Quinoline	516.40	1096.43	8.90	-3.33238e-008	-2.06779e+001	2.99813e-001	-9.12771e-005
Quinaldine	519.75	1062.68	9.20	1.22422e-005	-6.63190e+001	4.79578e-001	-2.71397e-004
C3=imine	334.00	811.80	10.40	0.00000e+000	-4.04387e+001	2.54740e-001	-1.58167e-004
MethylEAmine	431.15	942.32	9.75	0.00000e+000	-1.11783e+001	2.41665e-001	-1.27985e-004
12C3Diamine	392.45	864.91	10.30	0.00000e+000	2.21081e+000	2.31907e-001	-1.09509e-004
DMEthnlAmine	407.15	891.11	10.12	0.00000e+000	-1.59939e+001	2.91423e-001	-1.30629e-004
DiC2=TrAmine	480.25	962.28	9.90	0.00000e+000	-1.10858e+001	3.45394e-001	-1.83661e-004
MDEthnlAmine	520.15	1041.94	9.39	0.00000e+000	-1.76084e+001	3.73628e-001	-1.87539e-004
mPhynDiamine	560.00	1106.58	9.06	0.00000e+000	-3.82438e+001	3.83952e-001	-2.46927e-004
oPhnylDimine	525.00	1080.65	9.08	0.00000e+000	-3.82438e+001	3.83952e-001	-2.46927e-004
TriC2=TetraA	539.65	985.43	10.05	0.00000e+000	-3.00996e+001	5.20227e-001	-2.88810e-004
BenzylAmine	457.65	985.44	9.51	0.00000e+000	-4.64336e+001	3.73549e-001	-2.19301e-004
26MPyridine	417.20	924.76	9.83	0.00000e+000	-1.19762e+001	2.60393e-001	-7.03844e-005
ToluenDiamin	557.15	1048.53	9.55	0.00000e+000	-4.43061e+001	4.46843e-001	-2.85124e-004
nMCC6Amine	422.00	873.19	10.45	0.00000e+000	-5.46952e+001	4.02376e-001	-1.21221e-004
nC7Amine	430.05	778.81	11.79	0.00000e+000	-3.18191e+000	3.78732e-001	-1.53786e-004
oEAniline	482.65	984.46	9.69	0.00000e+000	-4.86906e+001	4.45248e-001	-2.71026e-004
246MPyridine	444.00	920.50	10.08	0.00000e+000	-4.18879e+001	3.67185e-001	-1.41708e-004
nOctylAmine	452.75	785.90	11.89	0.00000e+000	-1.21987e+001	4.50288e-001	-2.02580e-004
(C2=)4PAmine	606.15	1001.19	10.28	0.00000e+000	-5.48548e+001	7.08413e-001	-4.05783e-004
nNonylAmine	475.35	792.26	11.98	0.00000e+000	-1.41707e+001	5.02074e-001	-2.29026e-004
nnDiEAiline	489.42	937.61	10.22	0.00000e+000	-1.06081e+002	6.23426e-001	-3.66226e-004
26DEAniline	508.65	909.27	10.68	0.00000e+000	-4.82799e+001	5.40608e-001	-3.10770e-004
nDecylAmine	493.65	790.83	12.16	0.00000e+000	-1.08617e+001	5.37203e-001	-2.29105e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
2-M-Pyridine	2.41730e-008	-2.35090e-025	1.00000e+000	-0.10677	-0.33974	Amine	-3263900
3-M-Pyridine	2.42279e-008	-4.70180e-027	1.00000e+000	-0.20036	-0.43942	Amine	-3269120
4-M-Pyridine	1.36360e-008	1.03440e-025	1.00000e+000	-0.08172	-0.29383	Amine	-3265320
m-Toluidine	1.16140e-008	7.57371e-026	1.00000e+000	-0.50010	-0.99098	Amine	-3820000
o-Toluidine	2.14613e-008	-2.59670e-025	1.00000e+000	-0.56879	-1.17630	Amine	-3820000
p-Toluidine	2.08220e-008	-5.40979e-027	1.00000e+000	-0.04561	-0.37957	Amine	-3820000
Ethylenimine	2.29310e-009	9.56735e-026	1.00000e+000	0.02503	-0.23206	Amine	-1480000
C2=diAmine	-9.87616e-009	-4.27824e-025	1.00000e+000	-0.30160	-0.32907	Amine	-1680000
AllylAmine	6.31466e-009	-3.28613e-025	1.00000e+000	-0.24830	-0.60500	Amine	-2049990
Pyrrole	1.18016e-008	-6.43574e-026	1.00000e+000	-0.01374	-0.46786	Amine	-2241800
Pyrrolidine	1.88321e-008	2.15448e-025	1.00000e+000	-0.19550	-0.61263	Amine	-2621400
nMPyrrolidin	2.32322e-008	1.97751e-025	1.00000e+000	-0.28514	-0.64411	Amine	-3256540
nMPyrrolidon	2.30013e-008	2.40762e-012	1.00000e+000	-0.59245	-0.84737	Amine	-2793700
Piperidine	1.60777e-008	-1.03175e-025	1.00000e+000	-0.25119	-0.81638	Amine	-3211000
CC6Amine	2.20088e-008	-5.00711e-026	1.00000e+000	-0.10275	-0.65942	Amine	-3785500
HPM-OX	6.54668e-008	1.36125e-018	1.00000e+000	-1.32131	-2.34928	Amine	-163880
THEED	4.15287e-008	2.71240e-018	1.00000e+000	0.17793	-0.79512	Amine	-163880
HxC1=imine	2.63514e-008	1.00142e-026	1.00000e+000	-0.14023	-0.72402	Amine	-3853900
HxC1=diAmine	6.66354e-009	-2.69880e-025	1.00000e+000	-0.48818	-1.06277	Amine	-4196890
Cumidine	2.67498e-008	7.57180e-019	1.00000e+000	-0.01723	-0.39391	Amine	
Indole	5.13121e-008	-5.91141e-012	1.00000e+000	-0.91693	-1.40683	Amine	-4081100
UCARSOL	-2.88216e-015	8.79502e-019	1.00000e+000	-1.07360	-1.98110	Amine	-163880
Nicotine	-1.25814e-021	2.37540e-025	1.00000e+000	-0.00176	-0.45737	Amine	
Quinoline	7.21572e-010	5.58403e-012	1.00000e+000	-0.16461	-0.52735	Amine	-4544100
i-Quinoline	-6.43988e-009	7.13348e-012	1.00000e+000	0.10480	-0.25243	Amine	-4533000
Quinaldine	8.75177e-008	-1.22203e-011	1.00000e+000	-0.30007	-0.77521	Amine	-5232000
C3=imine	6.00966e-008	-9.98519e-012	1.00000e+000	-0.51078	-0.45736	Amine	-2080000
MethylEAmine	4.48884e-008	-7.74165e-012	1.00000e+000	-0.55631	-1.71105	Amine	-2009990
12C3Diamine	3.25330e-008	-4.73986e-012	1.00000e+000	-0.60229	-1.36202	Amine	-2289990
DMEthnlAmine	2.67688e-008	-4.16920e-014	1.00000e+000	0.49019	0.45002	Amine	-2649990
DiC2=TrAmine	6.31275e-008	-1.02788e-011	1.00000e+000	-0.22223	-0.89006	Amine	-3080000
MEthnlAmine	5.49278e-008	-7.14056e-012	1.00000e+000	-0.53839	-1.91559	Amine	-3060000
mPhynDiamine	9.21961e-008	-1.49566e-011	1.00000e+000	-1.42347	-2.19195	Amine	-3320000
oPhnylDimine	9.21961e-008	-1.49566e-011	1.00000e+000	-0.38412	-1.08835	Amine	-3329990
TriC2=TetraA	1.02351e-007	-1.66864e-011	1.00000e+000	-0.53417	-1.72201	Amine	-4450000
BenzylAmine	7.88580e-008	-1.27247e-011	1.00000e+000	-0.19716	-0.52880	Amine	-3849990
26MPyridine	-8.30148e-009	6.37912e-012	1.00000e+000	0.00691	-0.27786	Amine	-3855600
ToluenDiamin	1.06261e-007	-1.63996e-011	1.00000e+000	-0.54347	-0.73403	Amine	-4022000
nMCC6Amine	-3.41315e-009	7.09440e-012	1.00000e+000	-0.26849	-0.89843	Amine	-4419990
nC7Amine	3.59996e-008	-4.38436e-012	1.00000e+000	-0.09679	-0.62250	Amine	-4610000
oEAniline	1.02061e-007	-1.76273e-011	1.00000e+000	-0.53685	-1.15366	Amine	-4450000
246MPyridine	1.82733e-008	1.95909e-012	1.00000e+000	0.38945	0.45949	Amine	-4450000
nOctylAmine	5.50130e-008	-6.71668e-012	1.00000e+000	-0.09783	-0.61470	Amine	-5219990
(C2=)4PAmine	1.45875e-007	-2.38703e-011	1.00000e+000	0.24492	-0.78413	Amine	-5830000
nNonylAmine	6.44429e-008	-8.31943e-012	1.00000e+000	-0.06151	-0.75316	Amine	-5830000
nnDiEAniline	1.27236e-007	-1.94017e-011	1.00000e+000	-0.14857	-0.52102	Amine	-5730000
26DEAniline	1.08928e-007	-1.70729e-011	1.00000e+000	-0.38325	-1.11783	Amine	-5650000
nDecylAmine	5.60340e-008	-6.07466e-012	1.00000e+000	-0.04577	-0.76361	Amine	-6440000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
DiAmylAmine	1105	157.298	639.00	21.20000	0.62900	0.68673	0.67668	0.67668
DiPhnylAmine	1106	169.225	817.00	31.80000	0.53900	0.53677	0.53008	0.53008
12DiPHTriAzn	1107	197.240	845.00	28.26000	0.64200	0.67817	0.62268	0.62268
DiCyHxAmine	1108	181.320	737.00	25.20000	0.61900	0.66723	0.51332	0.51332
nC12Amine	1109	185.352	696.00	18.80000	0.73500	0.80488	0.76901	0.76901
nC14Amine	1110	213.406	722.30	16.60000	0.88700	0.95547	0.85833	0.85833
TriAmylAmine	1111	227.434	660.00	15.00000	0.89300	1.03971	0.85265	0.85265
nnDiPHpPHDia	1112	260.338	906.00	23.10000	0.81700	0.90072	0.87606	0.87606
F3-C2oicAcid	1113	114.024	491.30	32.60000	0.20397	0.22089	0.54000	0.53350
C3oicAcid	1114	74.080	612.00	54.00000	0.23488	0.23855	0.51999	0.51999
SuccinicAcid	1115	118.083	692.00	47.10000	0.31099	0.43845	0.98900	0.98900
n-C4oicAcid	1116	88.107	627.00	52.70000	0.28999	0.31099	0.68300	0.68300
i-C4oicAcid	1117	88.107	607.00	40.50000	0.29199	0.36107	0.62300	0.62300
n-C5oicAcid	1118	102.134	650.00	38.10000	0.34000	0.36553	0.61365	0.61365
i-C5oicAcid	1119	102.134	632.00	38.70000	0.34599	0.60575	0.64800	1.99580
n-C6oicAcid	1120	116.160	667.00	33.50000	0.38899	0.43042	0.67005	0.67005
1C12oicAcid	1121	200.320	734.00	19.30000	0.70500	0.86976	0.96710	0.96710
1C16oicAcid	1122	256.428	775.00	15.00000	0.91700	1.19140	1.08299	1.08299
LinoleicAcid	1123	280.450	775.00	13.00000	0.99000	1.09045	1.17620	0.63120
AbieticAcid	1124	302.457	832.00	16.80000	0.93000	1.06633	1.12880	1.22187
PerC2oicAcid	1125	76.052	557.00	64.00000	0.19799	0.21321	0.67356	0.67356
AcrylicAcid	1126	72.063	615.00	56.60000	0.20800	0.32574	0.53728	0.53728
FumaricAcid	1127	116.069	770.00	49.80000	0.29699	0.42787	0.98869	0.98869
MaleicAcid	1128	116.069	562.00	49.80000	0.29699	0.47483	0.98614	0.98614
ci-CrotoAcid	1129	86.090	647.00	47.00000	0.27000	0.27647	0.57226	0.57226
tr-CrotoAcid	1130	86.090	665.00	47.00000	0.27000	0.29587	0.57077	0.57077
m-AcrylAcid	1131	86.090	642.00	47.00000	0.27000	0.27092	0.46783	0.46783
AdipicAcid	1132	146.143	809.00	35.20000	0.40000	0.48440	1.05065	1.10450
StearicAcid	1133	284.483	799.00	13.50000	1.01997	1.33203	1.08410	1.08410
i-PhthalAcid	1134	166.132	1390.00	39.50000	0.42399	0.60527	1.07939	1.07939
PhthalAcid	1135	166.132	1390.00	39.50000	0.42399	0.53522	1.09238	1.09238
SoyBeanOil	1136	277.790	965.90	13.19400	1.02750	1.23432	0.95424	0.95424
T-PhthalAcid	1137	166.132	1390.00	39.50000	0.42399	0.86580	1.09238	1.09238
ThioAcetAcid	1138	76.110	577.30	69.20000	0.21950	0.21196	0.30400	0.30400
o-ToluicAcid	1139	136.149	750.00	38.60000	0.39700	0.43033	0.65720	0.78150
pToluicAcid	1140	136.149	772.00	38.60000	0.39700	0.44369	0.66100	1.03302
PyruvicAcid	1141	88.063	634.52	56.50000	0.23900	0.23418	0.66948	0.66948
MalonicAcid	1142	104.058	805.00	56.40000	0.25800	0.26111	0.94180	0.94180
LacticAcid	1143	90.078	627.00	59.60000	0.25100	0.25550	1.02959	1.02959
MalicAcid	1144	134.089	781.00	50.70000	0.33100	0.43849	1.52980	1.52980
CitracoAcid	1145	130.100	829.00	42.40000	0.34000	0.35045	0.92687	0.92687
GluricAcid	1146	132.115	807.00	40.40000	0.36300	0.38642	0.95896	0.95896
2MC4oicAcid	1147	102.133	643.00	38.90000	0.34700	0.36129	0.58944	0.58944
NeoC5oicAcid	1148	102.133	632.00	38.90000	0.33600	0.35796	0.50927	0.50927
2EC4oicAcid	1149	116.160	655.00	34.10000	0.38900	0.42376	0.63258	0.63258
HyCaproAcid	1150	132.158	758.00	36.40000	0.40200	0.45070	1.16284	1.16284
SalicylAcid	1151	138.123	739.00	51.80000	0.32600	0.38177	0.85118	0.85118
PimelicAcid	1152	160.169	805.00	31.40000	0.46900	0.50173	1.11582	1.11582

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
DiAmylAmine	476.15	779.84	12.18	0.00000e+000	-3.72836e+001	5.94174e-001	-2.87816e-004
DiPhnylAmine	575.15	1059.46	9.55	0.00000e+000	-1.24526e+002	6.68121e-001	-4.27190e-004
12DiPHTriAzn	610.00	969.07	10.65	0.00000e+000	-1.99682e+002	9.33253e-001	-6.93275e-004
DiCyHxAmine	529.00	915.83	10.74	0.00000e+000	-1.22466e+002	7.13697e-001	-2.62470e-004
nC12Amine	532.35	788.33	12.51	0.00000e+000	-2.24467e+001	6.63885e-001	-3.12305e-004
nC14Amine	564.45	796.65	12.62	0.00000e+000	-2.52421e+001	7.58392e-001	-3.43336e-004
TriAmylAmine	516.15	793.28	12.30	0.00000e+000	-5.77978e+001	8.70319e-001	-4.17919e-004
nnDiPHpPHDia	688.00	1019.08	10.54	0.00000e+000	-1.95969e+002	1.04671e+000	-6.84590e-004
F3-C2oicAcid	346.00	1535.00	5.56	0.00000e+000	2.07604e+001	1.59149e-001	-8.74966e-005
C3oicAcid	414.50	997.86	9.09	0.00000e+000	5.67279e+000	1.84572e-001	-9.55610e-005
SuccinicAcid	507.00	1035.31	9.37	0.00000e+000	1.50777e+001	2.34593e-001	-1.04830e-004
n-C4oicAcid	437.20	961.25	9.61	0.00000e+000	1.17464e+001	2.06985e-001	-8.10514e-005
i-C4oicAcid	427.90	805.91	11.37	0.00000e+000	9.81944e+000	2.33553e-001	-1.24082e-004
n-C5oicAcid	459.50	939.00	10.00	0.00000e+000	1.33969e+001	2.51817e-001	-9.77608e-005
i-C5oicAcid	449.70	934.22	9.98	0.00000e+000	7.69278e+000	2.60198e-001	-1.02854e-004
n-C6oicAcid	478.85	928.47	10.25	0.00000e+000	9.94658e+000	3.04992e-001	-1.21443e-004
1C12oicAcid	571.85	893.32	11.30	3.27794e-005	-4.43270e+000	6.18983e-001	-2.74394e-004
1C16oicAcid	624.15	881.58	11.79	4.46359e-005	-5.60518e+001	9.06047e-001	-4.50485e-004
LinoleicAcid	627.00	908.78	11.46	1.47718e-004	-1.19831e+002	1.11167e+000	-6.73052e-004
AbieticAcid	649.70	1212.68	8.69	7.72194e-005	-2.59816e+002	1.36411e+000	-7.82553e-004
PerC2oicAcid	382.00	1160.55	7.61	0.00000e+000	-5.80469e+000	1.69314e-001	-9.12267e-005
AcrylicAcid	414.15	715.39	12.68	0.00000e+000	9.72640e+000	1.39929e-001	-5.87828e-005
FumaricAcid	563.15	1073.52	9.36	0.00000e+000	5.29192e+001	1.90202e-001	-9.07764e-005
MaleicAcid	411.00	874.46	10.34	0.00000e+000	1.22577e+001	2.12014e-001	-1.03747e-004
ci-CrotoAcid	445.05	1032.18	9.00	0.00000e+000	1.86210e+001	1.84082e-001	-7.63091e-005
tr-CrotoAcid	458.15	971.96	9.65	0.00000e+000	6.71290e+000	1.89117e-001	-7.99964e-005
m-AcrylAcid	434.15	1021.03	9.02	0.00000e+000	-1.73831e+001	2.36861e-001	-1.20911e-004
AdipicAcid	611.00	1091.06	9.46	0.00000e+000	1.31656e+001	3.22033e-001	-1.34244e-004
StearicAcid	648.35	881.67	11.94	6.79712e-005	8.89860e+000	8.45987e-001	-3.04488e-004
i-PhthalAcid	1040.00	2000.18	6.16	0.00000e+000	-5.34696e+001	3.59995e-001	-1.53767e-004
PhthalAcid	1040.00	2184.62	5.64	0.00000e+000	-5.34696e+001	3.59995e-001	-1.53767e-004
SoyBeanOil	777.07	924.42	12.10	-1.37582e-004	-1.47580e+001	8.33751e-001	-2.10594e-004
T-PhthalAcid	1040.00	854.68	14.42	0.00000e+000	-5.34696e+001	3.59995e-001	-1.53767e-004
ThioAcetAcid	360.20	1069.51	8.09	-2.00057e-007	3.84649e+001	8.15374e-002	-2.33507e-005
o-ToluicAcid	532.00	1152.43	8.55	-6.33151e-005	4.52192e+000	1.66248e-001	1.56950e-004
pToluicAcid	548.15	1206.33	8.25	-6.33151e-005	4.52192e+000	1.66248e-001	1.56950e-004
PyruvicAcid	438.15	1274.92	7.25	0.00000e+000	3.20711e+000	1.94408e-001	-1.21866e-004
MalonicAcid	580.00	1408.30	7.20	0.00000e+000	-2.47202e+001	2.82895e-001	-2.05030e-004
LacticAcid	455.00	1220.90	7.66	0.00000e+000	3.40129e+000	2.17935e-001	-1.24677e-004
MalicAcid	602.00	1220.21	8.42	0.00000e+000	9.76018e+000	3.06084e-001	-2.02642e-004
CitracoAcid	607.00	1380.53	7.46	0.00000e+000	-5.35656e+001	5.22516e-001	-4.97060e-004
GluricAcid	595.54	1209.31	8.46	0.00000e+000	-9.23151e+000	3.99513e-001	-3.40483e-004
2MC4oicAcid	450.15	940.03	9.92	0.00000e+000	-1.84015e+001	3.01786e-001	-1.39091e-004
NeoC5oicAcid	436.95	908.21	10.16	0.00000e+000	-4.04858e+001	3.68299e-001	-2.26198e-004
2EC4oicAcid	466.95	927.88	10.17	0.00000e+000	-4.62428e+001	4.35365e-001	-2.83907e-004
HyCaproAcid	576.00	1134.16	8.92	0.00000e+000	-3.74120e+000	3.72999e-001	-1.93801e-004
SalicylAcid	529.00	1154.93	8.52	0.00000e+000	9.52857e+000	1.57674e-001	1.54062e-004
PimelicAcid	615.25	1206.83	8.57	0.00000e+000	1.86666e+001	3.87745e-001	-1.96606e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
DiAmylAmine	8.66751e-008	-1.22795e-011	1.00000e+000	-0.01351	-0.49705	Amine	-6450000
DiPhnylAmine	1.59796e-007	-2.58967e-011	1.00000e+000	-0.56883	-1.05253	Amine	-6179990
12DiPHTriAzn	2.88110e-007	-5.01700e-011	1.00000e+000	0.45038	0.43668	Amine	-6384000
DiCyHxAmine	2.97559e-008	4.12046e-012	1.00000e+000	-0.24202	-0.85587	Amine	-7260000
nC12Amine	9.27277e-008	-1.30751e-011	1.00000e+000	-0.02163	-0.76627	Amine	-7660000
nC14Amine	9.33005e-008	-1.15433e-011	1.00000e+000	-0.00053	-0.77583	Amine	-8830000
TriAmylAmine	1.21135e-007	-1.61337e-011	1.00000e+000	0.06204	-0.50575	Amine	-9529990
nnDiPHpPHDia	2.59094e-007	-4.24739e-011	1.00000e+000	-0.41974	-1.44817	Amine	-9340000
F3-C2oicAcid	1.98807e-008	1.72702e-026	1.00000e+000	0.11270	-0.51146	CarbAcid	150000
C3oicAcid	2.47084e-008	-3.74008e-026	1.00000e+000	0.04146	-0.28966	CarbAcid	-1395020
SuccinicAcid	1.98561e-008	4.76933e-026	1.00000e+000	0.01745	-0.64630	CarbAcid	-1359000
n-C4oicAcid	1.38362e-008	-8.45171e-026	1.00000e+000	-0.06999	-0.48201	CarbAcid	-2006220
i-C4oicAcid	3.37719e-008	1.69034e-025	1.00000e+000	0.13118	-0.31999	CarbAcid	-2000140
n-C5oicAcid	1.65581e-008	-1.75319e-025	1.00000e+000	-0.02439	-0.54935	CarbAcid	
i-C5oicAcid	1.73410e-008	-2.57823e-025	1.00000e+000	-0.06389	-0.58143	CarbAcid	-2615300
n-C6oicAcid	2.09861e-008	1.87667e-025	1.00000e+000	0.07202	-0.47530	CarbAcid	-3228500
1C12oicAcid	6.94027e-008	-7.81729e-012	1.00000e+000	0.35686	-0.48205	CarbAcid	-6849800
1C16oicAcid	1.36436e-007	-1.88659e-011	1.00000e+000	0.42823	-0.44861	CarbAcid	-9274680
LinoleicAcid	2.46866e-007	-3.77068e-011	1.00000e+000	0.11021	-0.85115	CarbAcid	-10400000
AbieticAcid	2.55750e-007	-3.63587e-011	1.00000e+000	-0.67495	-1.37931	CarbAcid	-10900000
PerC2oicAcid	2.28431e-008	-1.76624e-025	1.00000e+000	-0.03887	-0.52682	CarbAcid	-882623
AcrylicAcid	1.05531e-008	1.41893e-025	1.00000e+000	0.04637	-0.37016	CarbAcid	-1280210
FumaricAcid	1.88994e-008	2.92999e-026	1.00000e+000	-0.16986	-0.46481	CarbAcid	-1247030
MaleicAcid	2.27064e-008	-1.75800e-025	1.00000e+000	0.23454	-0.95569	CarbAcid	-1268370
ci-CrotoAcid	1.41316e-008	2.21669e-025	1.00000e+000	-0.17519	-0.55667	CarbAcid	-1950000
tr-CrotoAcid	1.50709e-008	-4.78110e-026	1.00000e+000	-0.15963	-0.49448	CarbAcid	-1880000
m-AcrylAcid	2.79459e-008	4.34645e-027	1.00000e+000	-0.14508	-0.43998	CarbAcid	-1930000
AdipicAcid	2.29734e-008	-2.43485e-025	1.00000e+000	0.15342	-0.81892	CarbAcid	-2580000
StearicAcid	4.08088e-008	1.46247e-012	1.00000e+000	0.26585	-0.66161	CarbAcid	-10489000
i-PhthalAcid	2.64432e-008	1.17425e-025	1.00000e+000	-0.04407	-0.90232	CarbAcid	-3070500
PhthalAcid	2.64432e-008	1.17425e-025	1.00000e+000	-0.05493	-0.84232	CarbAcid	-3091500
SoyBeanOil	-5.40666e-015	1.64303e-018	1.00000e+000	-0.18484	-0.76786	CarbAcid	
T-PhthalAcid	2.64432e-008	1.17425e-025	1.00000e+000	0.65347	0.47070	CarbAcid	-3057500
ThioAcetAcid	1.20048e-009	3.57789e-021	1.00000e+000	0.40437	0.49811	CarbAcid	
o-ToluicAcid	-2.15897e-007	7.36754e-011	1.00000e+000	0.61373	0.02963	CarbAcid	-3698000
pToluicAcid	-2.15897e-007	7.36754e-011	1.00000e+000	-0.12631	-0.82965	CarbAcid	-3692000
PyruvicAcid	4.69589e-008	-8.00249e-012	1.00000e+000	-0.37906	-0.94547	CarbAcid	-986999
MalonicAcid	8.71175e-008	-1.59422e-011	1.00000e+000	-0.29577	-0.14530	CarbAcid	-773630
LacticAcid	4.35934e-008	-6.92161e-012	1.00000e+000	-0.82790	-2.42143	CarbAcid	-1235000
MalicAcid	8.09021e-008	-1.43562e-011	1.00000e+000	-0.09558	0.74182	CarbAcid	-1190000
CitracoAcid	2.76486e-007	-6.41448e-011	1.00000e+000	-0.61792	-1.07972	CarbAcid	-1870000
GluricAcid	1.95517e-007	-5.04015e-011	1.00000e+000	-0.27242	-0.73358	CarbAcid	-1975270
2MC4oicAcid	3.43574e-008	-3.54191e-012	1.00000e+000	-0.05386	-0.53541	CarbAcid	-2680000
NeoC5oicAcid	8.64776e-008	-1.49241e-011	1.00000e+000	-0.05571	-0.57424	CarbAcid	-2569000
2EC4oicAcid	1.23280e-007	-2.51942e-011	1.00000e+000	-0.06651	-0.63225	CarbAcid	-3295900
HyCaproAcid	6.05503e-008	-8.75505e-012	1.00000e+000	-0.86918	-1.81444	CarbAcid	-3129990
SalicylAcid	-2.31130e-007	8.44042e-011	1.00000e+000	0.53535	0.45712	CarbAcid	-2890100
PimelicAcid	6.00911e-008	-8.77542e-012	1.00000e+000	-0.37125	-1.06164	CarbAcid	-3196400

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
AzelaicAcid	1153	188.223	811.00	25.60000	0.61000	0.68426	1.17192	1.17192
nC9oicAcid	1154	158.240	712.00	23.50000	0.54700	0.61993	0.72740	0.72740
nC10oicAcid	1155	172.268	726.00	21.00000	0.60000	0.66549	0.72724	0.72724
nC13oicAcid	1156	214.348	744.00	18.10000	0.75800	0.92290	1.00415	1.00415
nC14oicAcid	1157	228.375	756.00	17.00000	0.81100	0.96306	1.02541	1.02541
C15oicAcid	1158	242.401	766.00	16.00000	0.86400	1.07167	1.03980	1.03980
nC17oicAcid	1159	270.454	787.00	14.30000	0.96900	1.18464	1.06629	1.06629
LinolencAcid	1160	278.433	780.00	14.40000	1.07000	1.28979	1.18549	1.18549
C19oicAcic	1161	298.510	810.00	13.00000	1.08000	1.33840	1.07000	1.07000
nC20oicAcid	1162	312.536	821.00	12.40000	1.12996	1.44491	1.08554	1.08554
E-Formate	1163	74.080	508.50	47.30000	0.22900	0.22605	0.28499	0.28499
n-P-Formate	1164	88.107	537.00	40.60000	0.28499	0.28231	0.31400	0.31400
i-B-Formate	1165	102.134	552.00	38.70000	0.35199	0.34749	0.39599	0.39599
n-B-Formate	1166	102.133	557.00	35.10000	0.33599	0.34259	0.38440	0.38440
nPentylForma	1167	116.160	576.00	34.60000	0.40099	0.40786	0.53798	0.53798
iPentylForma	1168	116.160	577.00	30.50000	0.41299	0.40072	0.38411	0.38411
M-Acetate	1169	74.080	506.80	46.90000	0.22800	0.22619	0.32600	0.32049
AllylAcetate	1170	100.111	557.00	36.70000	0.32300	0.32326	0.38784	0.38784
E-Acetate	1171	88.107	523.20	38.20000	0.28600	0.28529	0.36199	0.35949
i-P-Acetate	1172	102.133	537.00	35.70000	0.33599	0.34147	0.35499	0.35499
n-P-Acetate	1173	102.134	549.40	33.20000	0.34498	0.34279	0.38850	0.39100
i-B-Acetate	1174	116.160	562.00	30.10000	0.41400	0.40641	0.45500	0.45500
n-B-Acetate	1175	116.160	577.00	31.30000	0.41280	0.40268	0.41479	0.41699
sec-B-Acetate	1176	116.160	561.00	31.60000	0.38899	0.40086	0.40560	0.40560
iPentylAceta	1177	130.186	597.00	28.30000	0.46000	0.46015	0.40500	0.40500
nPentylAceta	1178	130.186	597.00	27.00000	0.44200	0.46761	0.48958	0.48958
BZ-Acetate	1179	150.177	699.00	31.80000	0.44900	0.46808	0.46985	0.46985
M-C3oate	1180	88.107	530.60	40.00000	0.28200	0.28047	0.34999	0.34999
E-C3oate	1181	102.134	546.00	33.60000	0.34498	0.34123	0.39100	0.39100
Vinyl-C3oate	1182	100.111	546.00	36.70000	0.32300	0.35826	0.33572	0.33572
n-P-C3oate	1183	116.160	577.00	30.10000	0.41299	0.39789	0.36340	0.37617
i-B-C3oate	1184	130.186	582.00	27.60000	0.46000	0.45640	0.45974	0.45974
n-B-C3oate	1185	130.186	592.00	27.00000	0.44200	0.46489	0.47536	0.47536
i-PentC3oate	1186	144.214	611.00	24.60000	0.52398	0.52256	0.45199	0.45199
M-C4oate	1187	102.134	554.40	34.70000	0.34000	0.33906	0.37999	0.37999
M-i-C4oate	1188	102.134	540.80	34.20000	0.33899	0.35043	0.36199	0.36199
E-C4oate	1189	116.160	567.00	30.60000	0.42100	0.40625	0.46099	0.46099
E-i-C4oate	1190	116.160	555.00	29.60000	0.42100	0.40617	0.43099	0.43099
n-P-C4oate	1191	130.186	590.00	27.10000	0.46000	0.46118	0.44644	0.44644
n-P-i-C4oate	1192	130.186	581.00	28.30000	0.46000	0.45642	0.44732	0.44732
i-B-C4oate	1193	144.214	602.00	24.50000	0.52398	0.52832	0.47725	0.47725
i-B-i-C4oate	1194	144.214	601.90	24.60000	0.52398	0.51826	0.39493	0.39493
n-B-C4oate	1195	144.214	616.00	25.30000	0.49399	0.63124	0.48521	0.48521
E-i-C5-oate	1196	130.186	587.95	28.30000	0.44200	0.45873	0.40738	0.40738
nPiC5-oate	1197	144.214	607.00	24.60000	0.52398	0.52144	0.41800	0.41800
M-BZoate	1198	136.151	692.00	36.20000	0.39599	0.40639	0.43000	0.43000
E-BZoate	1199	150.177	668.70	23.20000	0.43099	0.46566	0.55097	0.47999
PhenylBZoate	1200	198.231	722.00	26.00000	0.56098	0.60613	0.57999	0.57999

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
AzelaicAcid	633.36	1046.44	9.98	0.00000e+000	-2.40045e+001	6.25162e-001	-4.65052e-004
nC9oicAcid	528.75	909.38	10.82	0.00000e+000	1.22272e+001	4.38080e-001	-1.75662e-004
nC10oicAcid	543.15	886.91	11.19	0.00000e+000	1.22226e+001	4.82414e-001	-1.89331e-004
nC13oicAcid	585.25	874.83	11.63	0.00000e+000	-1.58688e+001	6.99578e-001	-3.39442e-004
nC14oicAcid	599.35	859.61	11.93	0.00000e+000	-4.98008e+001	7.96577e-001	-3.92896e-004
C15oicAcid	612.05	862.93	11.97	0.00000e+000	-1.53147e+001	7.86128e-001	-3.63119e-004
nC17oicAcid	635.75	853.69	12.25	0.00000e+000	-1.79940e+001	8.83919e-001	-4.04524e-004
LinolencAcid	632.00	918.84	11.36	0.00000e+000	-9.10131e+001	9.90787e-001	-5.35844e-004
C19oicAcic	659.15	848.12	12.48	0.00000e+000	-2.61717e+001	9.95215e-001	-4.58571e-004
nC20oicAcid	670.15	841.46	12.65	0.00000e+000	-1.19627e+001	9.97459e-001	-4.20333e-004
E-Formate	327.50	928.96	9.03	0.00000e+000	2.46864e+001	1.15873e-001	-7.07129e-006
n-P-Formate	354.10	910.15	9.46	0.00000e+000	3.79212e+001	1.83364e-001	-3.73974e-005
i-B-Formate	371.40	884.38	9.89	0.00000e+000	1.98620e+001	2.01834e-001	-4.78967e-005
n-B-Formate	379.25	897.14	9.82	0.00000e+000	-2.62050e+001	3.47787e-001	-2.11958e-004
nPentylForma	403.60	902.00	9.97	0.00000e+000	-2.75879e+001	3.94012e-001	-2.11611e-004
iPentylForma	396.70	882.00	10.13	0.00000e+000	-2.75879e+001	3.94012e-001	-2.11611e-004
M-Acetate	330.40	939.33	8.95	0.00000e+000	1.65606e+001	1.12324e-001	-1.44826e-005
AllylAcetate	377.15	932.73	9.42	0.00000e+000	-3.71890e+000	2.54256e-001	-1.06249e-004
E-Acetate	350.30	904.86	9.48	0.00000e+000	7.23976e+000	2.03734e-001	-6.97782e-005
i-P-Acetate	361.65	881.34	9.83	4.01764e+004	-5.07969e+001	4.12769e-001	-2.85915e-004
n-P-Acetate	374.70	892.75	9.82	0.00000e+000	1.54294e+001	2.25197e-001	-5.62351e-005
i-B-Acetate	389.70	878.87	10.11	0.00000e+000	7.31454e+000	2.87188e-001	-8.59210e-005
n-B-Acetate	399.30	885.84	10.11	0.00000e+000	1.36275e+001	2.74630e-001	-7.59803e-005
sec-B-Acetate	385.15	877.94	10.08	0.00000e+000	-3.67181e+001	4.10974e-001	-2.21740e-004
iPentylAceta	415.70	875.37	10.37	0.00000e+000	-5.92611e+001	5.17985e-001	-3.37018e-004
nPentylAceta	422.15	880.84	10.36	0.00000e+000	-1.51872e+001	3.90706e-001	-1.66517e-004
BZ-Acetate	486.65	1054.39	9.08	0.00000e+000	-6.93516e+001	5.01304e-001	-2.80954e-004
M-C3oate	352.80	919.84	9.34	0.00000e+000	1.82115e+001	1.57101e-001	-3.11971e-005
E-C3oate	372.20	894.90	9.78	0.00000e+000	1.98620e+001	2.01834e-001	-4.79309e-005
Vinyl-C3oate	364.35	823.71	10.55	0.00000e+000	-6.53907e+000	2.55766e-001	-1.08973e-004
n-P-C3oate	395.80	886.42	10.08	0.00000e+000	-2.75879e+001	3.94012e-001	-2.11611e-004
i-B-C3oate	410.00	888.00	10.18	0.00000e+000	-3.09191e+001	4.41588e-001	-2.37162e-004
n-B-C3oate	419.75	880.71	10.34	0.00000e+000	1.56872e+001	3.24404e-001	-1.03174e-004
i-PentC3oate	433.40	870.00	10.58	0.00000e+000	9.30026e+000	3.62778e-001	-1.15777e-004
M-C4oate	375.90	902.86	9.72	0.00000e+000	-7.64617e+000	2.99454e-001	-1.44521e-004
M-i-C4oate	365.50	862.00	10.09	0.00000e+000	4.34540e+000	2.28613e-001	-6.56598e-005
E-C4oate	394.70	883.28	10.10	0.00000e+000	2.15233e+001	2.46564e-001	-6.46389e-005
E-i-C4oate	383.20	869.00	10.17	0.00000e+000	-2.75879e+001	3.94012e-001	-2.11611e-004
n-P-C4oate	416.20	879.00	10.33	0.00000e+000	1.35459e+001	3.28907e-001	-1.06979e-004
n-P-i-C4oate	408.60	884.00	10.21	0.00000e+000	1.35459e+001	3.28907e-001	-1.06979e-004
i-B-C4oate	430.10	863.00	10.64	0.00000e+000	9.30026e+000	3.62778e-001	-1.15777e-004
i-B-i-C4oate	421.80	859.95	10.61	0.00000e+000	-3.54262e+001	4.66492e-001	-2.03857e-004
n-B-C4oate	438.15	728.60	12.68	0.00000e+000	2.48047e+001	3.35841e-001	-9.79954e-005
E-i-C5-oate	407.45	873.55	10.32	0.00000e+000	-2.23125e+001	4.19475e-001	-1.99656e-004
nPiC5-oate	429.10	863.00	10.63	0.00000e+000	9.30026e+000	3.62778e-001	-1.15777e-004
M-BZoate	472.20	1086.00	8.72	0.00000e+000	-2.12219e+001	2.75228e-001	-6.00016e-005
E-BZoate	485.90	1050.93	9.10	0.00000e+000	2.06824e+001	3.44574e-001	-1.20344e-004
PhenylBZoate	523.00	1004.97	9.75	0.00000e+000	-1.93313e+001	4.82742e-001	-1.71019e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
AzelaicAcid	2.43250e-007	-5.99686e-011	1.00000e+000	-0.25893	-1.09388	CarbAcid	-4422390
nC9oicAcid	4.12116e-008	-6.53136e-012	1.00000e+000	0.08891	-0.58629	CarbAcid	-5060600
nC10oicAcid	4.17197e-008	-6.13295e-012	1.00000e+000	-0.08891	-0.79206	CarbAcid	-5720000
nC13oicAcid	1.02232e-007	-1.46132e-011	1.00000e+000	-0.07338	-0.88056	CarbAcid	-7452600
nC14oicAcid	1.16991e-007	-1.59256e-011	1.00000e+000	-0.07005	-0.89078	CarbAcid	-8060000
C15oicAcid	1.00148e-007	-1.28502e-011	1.00000e+000	-0.07576	-0.92046	CarbAcid	-8668900
nC17oicAcid	1.10369e-007	-1.39622e-011	1.00000e+000	0.06030	-0.77564	CarbAcid	-9876130
LinolencAcid	1.77775e-007	-2.64745e-011	1.00000e+000	0.01865	-0.72552	CarbAcid	-10200000
C19oicAcic	1.24532e-007	-1.53381e-011	1.00000e+000	-0.09407	-1.00899	CarbAcid	-11088000
nC20oicAcid	1.00643e-007	-1.29830e-011	1.00000e+000	0.22815	-0.62434	CarbAcid	-11694800
E-Formate	-1.34060e-008	1.57084e-025	1.00000e+000	0.03716	-0.18353	Ester	-1506960
n-P-Formate	-2.58922e-009	-8.89653e-026	1.00000e+000	0.00557	-0.26675	Ester	-2029990
i-B-Formate	-1.85166e-009	-4.02203e-025	1.00000e+000	-0.02209	-0.35199	Ester	-2700770
n-B-Formate	8.04786e-008	-1.34022e-011	1.00000e+000	-0.00622	-0.38023	Ester	-2803900
nPentylForma	5.31515e-008	-1.05563e-025	1.00000e+000	-0.01452	-0.48653	Ester	
iPentylForma	5.31515e-008	-1.05563e-025	1.00000e+000	-0.01282	-0.34854	Ester	
M-Acetate	7.28961e-009	-5.23612e-026	1.00000e+000	-0.00413	-0.21626	Ester	-1450000
AllylAcetate	1.80383e-008	-2.12281e-025	1.00000e+000	-0.01101	-0.36125	Ester	-2561720
E-Acetate	7.14197e-009	1.91276e-025	1.00000e+000	0.03730	-0.22010	Ester	-2063000
i-P-Acetate	1.19921e-007	-2.15145e-011	1.00000e+000	-0.01461	-0.35938	Ester	-2658000
n-P-Acetate	-3.59982e-009	3.14543e-025	1.00000e+000	-0.00306	-0.31521	Ester	-2671000
i-B-Acetate	2.75428e-009	1.75937e-025	1.00000e+000	-0.00714	-0.36307	Ester	-3276000
n-B-Acetate	1.97877e-010	-2.69771e-025	1.00000e+000	-0.30671	-0.65684	Ester	-3283000
sec-B-Acetate	5.54665e-008	1.64208e-025	1.00000e+000	-0.06132	-0.44795	Ester	-3267000
iPentylAceta	1.38342e-007	-2.56502e-011	1.00000e+000	-0.04324	-0.39759	Ester	-3889900
nPentylAceta	3.08757e-008	-9.20180e-026	1.00000e+000	-0.01649	-0.38602	Ester	-3893050
BZ-Acetate	7.20109e-008	1.51640e-025	1.00000e+000	-0.39236	-0.78693	Ester	-4381910
M-C3oate	-4.57268e-009	-1.64586e-025	1.00000e+000	0.00794	-0.23014	Ester	-2077980
E-C3oate	-1.84969e-009	3.30013e-025	1.00000e+000	0.00820	-0.27092	Ester	-2673000
Vinyl-C3oate	1.93683e-008	1.61738e-025	1.00000e+000	0.00990	-0.29181	Ester	-2587500
n-P-C3oate	5.31515e-008	-1.05563e-025	1.00000e+000	-0.07768	-0.40988	Ester	-3270000
i-B-C3oate	5.95693e-008	-1.18309e-025	1.00000e+000	-0.01678	-0.41521	Ester	-2700770
n-B-C3oate	8.30071e-009	6.11262e-025	1.00000e+000	-0.09949	-0.48594	Ester	-3900000
i-PentC3oate	4.69487e-008	-2.91238e-026	1.00000e+000	-0.01764	-0.40950	Ester	
M-C4oate	3.22704e-008	-2.47510e-025	1.00000e+000	-0.00567	-0.29374	Ester	-2680000
M-i-C4oate	3.43678e-008	1.03129e-026	1.00000e+000	-0.00369	-0.35137	Ester	-163880
E-C4oate	8.90336e-010	8.79687e-026	1.00000e+000	0.00057	-0.30588	Ester	-3284500
E-i-C4oate	5.31515e-008	-1.05563e-025	1.00000e+000	-0.01575	-0.38473	Ester	
n-P-C4oate	9.46115e-009	-4.73235e-025	1.00000e+000	-0.03667	-0.42329	Ester	-3904800
n-P-i-C4oate	9.46115e-009	-4.73235e-025	1.00000e+000	-0.01426	-0.40711	Ester	
i-B-C4oate	4.69487e-008	-2.91238e-026	1.00000e+000	-0.01792	-0.43288	Ester	
i-B-i-C4oate	3.92395e-008	-2.91238e-026	1.00000e+000	-0.14000	-0.54487	Ester	-4480000
n-B-C4oate	2.76845e-008	2.47552e-025	1.00000e+000	0.46975	0.45601	Ester	-4502640
E-i-C5-oate	4.30011e-008	4.33799e-025	1.00000e+000	-0.12566	-0.51165	Ester	-3876500
nPiC5-oate	4.69487e-008	-2.91238e-026	1.00000e+000	-0.01476	-0.38288	Ester	
M-BZoate	1.10695e-008	-6.87387e-026	1.00000e+000	-0.30601	-0.67856	Ester	-3771000
E-BZoate	1.26632e-008	-7.20290e-025	1.00000e+000	-0.07571	-0.56527	Ester	-4410000
PhenylBZoate	2.01298e-008	-8.00649e-026	1.00000e+000	-0.02079	-0.52938	Ester	

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
betaPLactone	1201	72.063	685.00	69.00000	0.19494	0.17889	0.34474	0.34474
gamaBLactone	1202	86.090	739.00	59.20000	0.26499	0.24592	0.36901	0.36901
Caprolactone	1203	114.138	732.00	46.20000	0.33100	0.32855	0.41830	0.41830
Di-E-Oxalate	1204	146.143	645.00	30.80000	0.41600	0.44628	0.56822	0.56822
EGly-DiAceta	1205	146.143	652.00	30.80000	0.41600	0.43562	0.55952	0.55952
di-E-Malonat	1206	160.169	652.00	27.80000	0.46900	0.50801	0.61084	0.61084
M-Acrylate	1207	86.090	536.00	42.50000	0.27000	0.26399	0.34755	0.33730
E-Acrylate	1208	100.115	553.00	36.80000	0.32300	0.32297	0.37180	0.37180
n-B-Acrylate	1209	128.171	597.00	26.30000	0.42800	0.44260	0.43810	0.43810
nBMAcrylate	1210	142.197	616.00	26.30000	0.48100	0.50163	0.46550	0.46550
M-Caprata	1211	186.294	682.00	22.50000	0.59249	0.73629	0.65900	0.65900
M-Caproate	1212	130.186	605.00	30.00000	0.41677	0.46598	0.47900	0.47900
M-Myristate	1213	242.401	739.00	18.50000	0.73964	1.06421	0.84400	0.84400
M-Palmitate	1214	270.454	763.00	16.50000	0.83714	1.18692	0.92400	0.92400
M-Stearate	1215	298.507	785.00	15.00000	0.92928	1.39899	0.99400	0.99400
M-Oleate	1216	296.500	764.00	12.80000	1.05999	1.22762	1.04900	0.73209
M-Linoleate	1217	294.459	749.58	21.05100	0.71518	1.14016	0.56992	0.56992
M-Caprylate	1218	158.240	647.00	25.50000	0.51087	0.59608	0.56200	0.56200
M-Laureate	1219	214.347	712.00	20.25000	0.75800	0.87061	0.75600	1.25550
M-Arachidate	1220	326.559	752.95	14.73600	0.99745	1.41090	0.66348	0.66348
MMethAcryl	1221	100.111	562.00	36.70000	0.32300	0.31119	0.31674	0.28900
EMethaAcryla	1222	114.138	577.00	32.50000	0.37500	0.37430	0.34371	0.34371
M-Salicylate	1223	152.149	700.00	40.70000	0.41000	0.44479	0.63150	0.63150
M-p-Toluate	1224	150.179	710.90	32.24600	0.45750	0.47544	0.48766	0.54000
MTerephthlate	1225	180.160	743.03	34.43900	0.39550	0.65314	0.73145	0.77400
DMTerephthlat	1226	194.190	772.00	27.80000	0.52900	0.49199	0.63710	0.03397
2HyEAcrylate	1227	116.113	662.00	39.80000	0.35900	0.41621	0.86413	0.86413
DMMaleate	1228	144.126	675.00	32.20000	0.40300	0.41619	0.56236	0.56236
nPAcrylate	1229	114.140	569.00	32.50000	0.37600	0.38514	0.43155	0.43155
EthylInDiAcet	1230	146.143	627.00	31.40000	0.41600	0.43422	0.52630	0.52630
tertBC2oate	1231	116.160	545.00	31.70000	0.38900	0.39332	0.33958	0.33958
AllyMAcrylat	1232	126.152	600.00	30.20000	0.41500	0.41541	0.38812	0.38812
lc4Acrylate	1233	128.171	587.00	29.50000	0.43300	0.44680	0.45514	0.45514
nPMAcrylate	1234	128.171	599.00	29.10000	0.42800	0.43711	0.40077	0.40077
BZylFormate	1235	136.149	698.00	35.90000	0.39700	0.40597	0.42028	0.42028
EGDiacetate	1236	170.164	689.00	27.00000	0.51800	0.53197	0.66176	0.66176
DiEMaleate	1237	172.179	680.00	26.10000	0.50800	0.61379	0.66580	0.66580
nHexylC2oate	1238	144.214	618.00	25.40000	0.49400	0.53315	0.53960	0.53960
GlyTriC2oate	1239	218.207	704.00	23.10000	0.62500	0.68958	0.83893	0.83893
nBValerate	1240	158.240	629.00	23.30000	0.54700	0.60124	0.59554	0.59554
nC7Acetate	1241	158.240	637.00	23.30000	0.54700	0.60105	0.59529	0.59529
nC8Formate	1242	158.240	645.00	23.30000	0.54700	0.59935	0.58709	0.58709
IPentIsoVale	1243	172.268	637.00	22.00000	0.60000	0.66200	0.57852	0.57852
nC8C2oate	1244	172.268	652.00	21.50000	0.60000	0.67130	0.65139	0.65139
nBBZoate	1245	178.231	724.00	25.90000	0.55500	0.60420	0.57539	0.57539
2EHxAcrylate	1246	184.279	655.00	20.70000	0.66400	0.71033	0.67303	0.67303
nNonyAcetate	1247	186.294	661.00	19.90000	0.65300	0.74548	0.71592	0.71592
nDecAcetate	1248	200.320	678.00	18.60000	0.70500	0.81612	0.75025	0.75025

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
betaPLactone	435.15	1272.63	7.24	0.00000e+000	1.74391e+000	1.43204e-001	-5.44050e-005
gamaBLactone	477.15	1132.93	8.39	0.00000e+000	7.66373e+000	1.53745e-001	-3.27243e-005
Caprolactone	488.15	1137.43	8.42	0.00000e+000	-6.21229e+001	3.73003e-001	-1.53989e-004
Di-E-Oxalate	458.85	1083.79	8.66	0.00000e+000	-7.75543e+000	3.66983e-001	-1.75338e-004
EGly-DiAceta	463.65	1110.93	8.48	0.00000e+000	-7.75119e+000	3.66983e-001	-1.75350e-004
di-E-Malonat	472.05	1059.67	8.94	0.00000e+000	-2.56429e+001	4.37728e-001	-2.06189e-004
M-Acrylate	353.35	960.77	8.95	0.00000e+000	4.60394e+000	1.92574e-001	-7.95206e-005
E-Acrylate	372.65	926.29	9.45	0.00000e+000	-1.44463e+001	2.88592e-001	-1.61190e-004
n-B-Acrylate	421.00	903.53	10.09	2.35828e-005	3.19350e+001	3.09031e-001	-1.21007e-004
nBMAcrylate	432.00	899.13	10.23	1.64454e-005	-4.44671e+001	4.87464e-001	-2.73884e-004
M-Caprata	505.13	873.00	11.10	2.69276e+004	-3.86818e+001	5.37385e-001	-1.35274e-004
M-Caproate	424.14	884.60	10.33	3.23300e+004	-5.81671e+001	3.75921e-001	-9.48763e-005
M-Myristate	570.12	850.00	11.87	1.46112e+004	1.19712e+000	6.97750e-001	-1.74692e-004
M-Palmitate	599.30	880.00	11.65	1.88949e+004	-1.44131e+001	7.80639e-001	-1.96819e-004
M-Stearate	625.63	849.80	12.24	5.95312e+003	2.86004e+001	8.59235e-001	-2.15111e-004
M-Oleate	617.00	876.88	11.81	3.24214e-005	-4.53642e+001	1.01813e+000	-5.08124e-004
M-Linoleate	551.32	888.60	11.23	3.50760e+004	-5.07514e+001	8.50565e-001	-2.14858e-004
M-Caprylate	466.85	877.50	10.75	3.00430e+004	-4.92800e+001	4.56643e-001	-1.15067e-004
M-Laureate	539.31	1047.27	9.46	1.67941e-005	-2.99213e+001	7.36346e-001	-3.84693e-004
M-Arachidate	579.42	820.00	12.37	6.88711e+003	4.17438e+001	9.37228e-001	-2.32867e-004
MMethAcryl	373.45	947.55	9.25	0.00000e+000	-1.09700e+001	2.59392e-001	-1.09458e-004
EMethaAcryla	390.15	917.55	9.69	0.00000e+000	-1.65865e+001	3.15301e-001	-1.34723e-004
M-Salicylate	493.65	1182.95	8.13	3.04473e-005	-6.57952e+001	4.63522e-001	-2.90456e-004
M-p-Toluate	496.15	1063.66	9.05	-3.30353e-006	5.10006e-001	3.32822e-001	-1.11788e-004
MTerephthlate	538.15	1007.96	9.82	9.93089e-006	3.74097e+001	2.88460e-001	-7.24528e-005
DMTerephthlat	561.15	1173.77	8.55	-3.55898e-005	-1.35539e+002	6.78228e-001	-4.29915e-004
2HyEAcrylate	484.00	1016.28	9.40	0.00000e+000	-3.57223e+001	4.33853e-001	-3.47660e-004
DMMaleate	478.15	1158.13	8.21	0.00000e+000	-3.25107e+000	3.85131e-001	-2.67423e-004
nPAcrylate	392.15	908.30	9.80	0.00000e+000	-4.68983e+001	4.79504e-001	-3.75548e-004
EthylnDiAcet	442.15	1069.43	8.67	0.00000e+000	2.49191e+001	1.30146e-001	3.81840e-004
tertBC2oate	369.15	870.78	10.02	0.00000e+000	-6.73637e+001	5.16863e-001	-3.86210e-004
AllyMAcrylat	412.65	928.67	9.75	0.00000e+000	-4.03283e+000	3.37814e-001	-2.42560e-004
lc4Acrylate	410.00	893.80	10.11	0.00000e+000	-4.93023e+001	5.28184e-001	-3.92211e-004
nPMAcrylate	414.00	906.11	10.01	0.00000e+000	-4.69458e+001	4.50874e-001	-2.71732e-004
BZylFormate	476.15	1086.39	8.74	0.00000e+000	-8.37033e+001	4.79118e-001	-2.93950e-004
EGDiacetate	503.00	1089.81	8.88	0.00000e+000	-9.79709e+001	7.93754e-001	-7.43506e-004
DiEMaleate	498.15	968.99	9.95	0.00000e+000	-8.99699e+001	7.73848e-001	-6.76636e-004
nHexylC2oate	444.65	876.51	10.59	0.00000e+000	-5.29199e+001	5.51506e-001	-3.43999e-004
GlyTriC2oate	532.15	1163.88	8.47	0.00000e+000	-8.62097e+001	7.59875e-001	-5.23276e-004
nBValerate	459.65	871.07	10.78	0.00000e+000	-5.14468e+001	6.06327e-001	-3.78433e-004
nC7Acetate	465.55	874.52	10.78	0.00000e+000	-6.26933e+001	6.22519e-001	-3.87150e-004
nC8Formate	471.95	878.13	10.79	0.00000e+000	-4.25803e+001	5.74272e-001	-3.31638e-004
lPentIsoVale	467.15	860.36	10.97	0.00000e+000	-6.52763e+001	6.78433e-001	-4.14630e-004
nC8C2oate	484.45	872.33	10.95	0.00000e+000	-6.56105e+001	6.75394e-001	-4.11986e-004
nBBZoate	523.15	1008.09	9.72	0.00000e+000	-8.46025e+001	5.85783e-001	-3.19009e-004
2EHxAcrylate	489.15	888.71	10.79	0.00000e+000	-5.18390e+001	7.10108e-001	-4.48181e-004
nNonyAcetate	497.10	869.33	11.09	0.00000e+000	-6.85093e+001	7.28225e-001	-4.36735e-004
nDecAcetate	517.15	869.08	11.24	0.00000e+000	-7.14085e+001	7.81030e-001	-4.61461e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
betaPLactone	8.58369e-009	7.27654e-026	1.00000e+000	-0.15388	-0.02228	Ester	-1329010
gamaBLactone	-8.49309e-010	-1.95591e-025	1.00000e+000	-0.01785	-0.31940	Ester	-1867900
Caprolactone	2.60368e-008	5.76250e-026	1.00000e+000	-0.13613	-0.16425	Ester	-3083850
Di-E-Oxalate	3.72275e-008	-3.54160e-025	1.00000e+000	-0.54179	-1.07746	Ester	-2723000
EGly-DiAceta	3.72318e-008	1.69702e-025	1.00000e+000	0.09478	-0.44405	Ester	-2704740
di-E-Malonat	4.21885e-008	3.88151e-025	1.00000e+000	-0.25755	-0.75843	Ester	-3361000
M-Acrylate	1.35267e-008	3.08598e-025	1.00000e+000	-0.10164	-0.37691	Ester	-1937400
E-Acrylate	5.75753e-008	-1.04420e-011	1.00000e+000	0.09208	-0.17126	Ester	-2555000
n-B-Acrylate	2.43361e-008	-3.06374e-012	1.00000e+000	0.23383	-0.24761	Ester	-3770000
nBMAcrylate	9.30985e-008	-1.41875e-011	1.00000e+000	-0.08462	-0.55746	Ester	-4420000
M-Caprata	-3.46722e-021	1.29795e-024	1.00000e+000	0.48412	0.43374	Ester	
M-Caproate	1.48070e-022	3.94363e-026	1.00000e+000	0.43884	0.45330	Ester	
M-Myristate	-1.50382e-022	7.34287e-026	1.00000e+000	0.53635	0.42422	Ester	
M-Palmitate	-3.41164e-021	-1.91162e-025	1.00000e+000	0.53494	0.41254	Ester	
M-Stearate	1.23460e-021	-3.01415e-025	1.00000e+000	0.55239	0.40908	Ester	
M-Oleate	1.55003e-007	-2.17131e-011	1.00000e+000	-0.07396	-0.73745	Ester	-11100000
M-Linoleate	1.43098e-021	8.91983e-026	1.00000e+000	0.53564	0.45701	Ester	
M-Caprylate	1.58708e-021	-5.59236e-025	1.00000e+000	0.45817	0.44218	Ester	
M-Laureate	1.26752e-007	-1.91322e-011	1.00000e+000	0.05070	-0.50342	Ester	-7566800
M-Arachidate	-2.29605e-021	-8.57325e-025	1.00000e+000	0.50099	0.42169	Ester	
MMethAcryl	1.92673e-008	2.27444e-025	1.00000e+000	0.06020	-0.18194	Ester	-2546800
EMethaAcryla	2.45005e-008	-2.42025e-025	1.00000e+000	-0.13589	-0.39912	Ester	-3150000
M-Salicylate	1.06450e-007	-1.66851e-011	1.00000e+000	0.15000	-0.30692	Ester	-358380
M-p-Toluate	9.85009e-009	3.82968e-020	1.00000e+000	-0.00822	-0.39651	Ester	
MTerephthlate	-4.37493e-009	-1.19222e-019	1.00000e+000	0.07720	-0.56696	Ester	
DMTerephthlat	1.16006e-007	3.36151e-012	1.00000e+000	0.33209	-0.20635	Ester	-4411500
2HyEAcrylate	1.62820e-007	-3.10689e-011	1.00000e+000	-0.82060	-1.84867	Ester	-2369990
DMMaleate	1.18430e-007	-2.32700e-011	1.00000e+000	0.15614	-0.37679	Ester	-2647500
nPAcrylate	1.75850e-007	-3.40019e-011	1.00000e+000	-0.07111	-0.38286	Ester	-3160000
EthylnDiAcet	-5.11148e-007	1.92887e-010	1.00000e+000	-0.21531	-0.65300	Ester	-2700000
tertBC2oate	1.78173e-007	-3.56868e-011	1.00000e+000	-0.05849	-0.43008	Ester	-3251000
AllyMAcrylat	1.16241e-007	-2.49529e-011	1.00000e+000	-0.13048	-0.36376	Ester	-3729990
lc4Acrylate	1.77382e-007	-3.38405e-011	1.00000e+000	-0.00193	-0.35455	Ester	-3769990
nPMAcrylate	1.00822e-007	-1.68281e-011	1.00000e+000	-0.14641	-0.44252	Ester	-3760000
BZylFormate	9.79448e-008	-1.17279e-011	1.00000e+000	-0.43918	-0.75392	Ester	-3809990
EGDiacetate	3.94023e-007	-8.47890e-011	1.00000e+000	-0.34483	-0.65614	Ester	-3689990
DiEMaleate	3.38750e-007	-6.85894e-011	1.00000e+000	0.04972	-0.48693	Ester	-3800000
nHexylC2oate	1.35669e-007	-2.37760e-011	1.00000e+000	-0.08464	-0.51340	Ester	-4505000
GlyTriC2oate	1.96038e-007	-2.70387e-011	1.00000e+000	-0.26891	-0.78108	Ester	-3903000
nBValerate	1.50390e-007	-2.69527e-011	1.00000e+000	-0.13265	-0.58257	Ester	-5105000
nC7Acetate	1.49333e-007	-2.49670e-011	1.00000e+000	0.06254	-0.41581	Ester	-5113000
nC8Formate	1.20677e-007	-1.97643e-011	1.00000e+000	-0.02929	-0.47370	Ester	-5157000
IPentIsoVale	1.58504e-007	-2.71961e-011	1.00000e+000	-0.16248	-0.61958	Ester	-5713070
nC8C2oate	1.56164e-007	-2.57754e-011	1.00000e+000	0.08169	-0.42006	Ester	-5723000
nBBZoate	1.00870e-007	-1.34229e-011	1.00000e+000	-0.44123	-0.96238	Ester	-5590000
2EHxAcrylate	1.76786e-007	-3.07989e-011	1.00000e+000	-0.21812	-0.69152	Ester	-6221000
nNonyAcetate	1.62934e-007	-2.65683e-011	1.00000e+000	-0.11603	-0.59596	Ester	-6332000
nDecAcetate	1.69692e-007	-2.73583e-011	1.00000e+000	0.08352	-0.44256	Ester	-6942000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
nBC9oate	1249	214.348	652.00	17.40000	0.79400	0.89509	0.82793	0.82793
MC12oate	1250	214.348	712.00	17.40000	0.75800	0.73304	0.68994	0.68994
BzylBZoate	1251	212.248	820.00	25.80000	0.69400	0.70076	0.62249	0.62249
DiClPEther	1252	171.070	613.15	28.47200	0.48000	0.48730	0.45400	0.45400
Vinyl-M-Ethe	1253	58.080	436.00	47.60000	0.20498	0.20667	0.34000	0.34000
M-E-Ether	1254	60.096	437.80	44.00000	0.22100	0.22820	0.24400	0.24007
Vinyl-E-Ethe	1255	72.107	475.00	40.70000	0.25698	0.24943	0.26800	0.26730
M-P-Ether	1256	74.123	476.30	37.00000	0.27399	0.33013	0.27099	0.27099
M-i-P-Ether	1257	74.123	464.50	37.60000	0.27700	0.27790	0.26600	0.26600
E-P-Ether	1258	88.150	500.20	33.70000	0.33899	0.34268	0.33300	0.33300
B-M-Ether	1259	88.150	512.80	33.70000	0.32899	0.33956	0.31600	0.31600
TAME	1260	102.180	536.83	31.14000	0.37850	0.38084	0.29173	0.29173
E-B-Ether	1261	102.177	531.00	30.30000	0.38999	0.40182	0.40000	0.40000
C4==Ether	1262	84.120	513.84	37.59100	0.29550	0.29615	0.29429	0.29429
MPentylEther	1263	102.177	546.50	30.30000	0.39199	0.40288	0.34700	0.34700
diP-Ether	1264	102.177	530.60	30.30000	0.38600	0.40070	0.36899	0.36899
di-i-P-Ether	1265	102.177	500.30	28.80000	0.38600	0.40191	0.33100	0.33000
M-PH-Ether	1266	108.138	645.60	41.70000	0.33700	0.33792	0.34700	0.34700
disecBEther	1267	130.229	562.00	25.50000	0.48950	0.52354	0.41000	0.41000
E-PH-Ether	1268	122.166	647.00	34.20000	0.40000	0.39618	0.41800	0.41800
diB-Ether	1269	130.231	570.00	25.30000	0.49000	0.53021	0.50199	0.50199
di-trt-B-Eth	1270	130.231	550.00	24.10000	0.49000	0.49096	0.32201	0.32201
diPH-Ether	1271	170.210	765.00	31.30000	0.53700	0.53500	0.43999	0.43999
diHX-Ether	1272	186.338	657.00	18.10000	0.72000	0.80873	0.69998	0.69998
Methylal	1273	76.096	480.60	39.50000	0.21299	0.24334	0.28600	0.28600
diVinyl-Ethe	1274	70.091	462.00	42.50000	0.25000	0.25744	0.29107	0.29107
12Methoxy-C2	1275	90.123	536.00	38.70000	0.27099	0.30542	0.35800	0.35800
Vinyl-B-Ethe	1276	100.161	536.00	31.10000	0.36399	0.37874	0.38016	0.38016
Paraldehyde	1277	132.158	577.00	35.00000	0.36500	0.41021	0.44047	0.44047
Acetal	1278	118.176	541.00	29.80000	0.40200	0.42844	0.30239	0.43209
diEGlydiMEth	1279	134.175	602.00	28.60000	0.42199	0.45820	0.57476	0.57476
E-Bz-Ether	1280	136.194	662.00	31.10000	0.44200	0.45873	0.43323	0.43323
di-BZ-Ether	1281	198.264	777.00	25.60000	0.63400	0.66061	0.59074	0.59074
di-nonyl-Eth	1282	270.497	735.00	13.00000	0.10198	1.30438	1.00206	1.00206
Furan	1283	68.075	490.20	55.00000	0.21796	0.19888	0.20900	0.20610
TetraHyFuran	1284	72.107	540.10	51.90000	0.22400	0.23149	0.21694	0.22269
2-M-Furan	1285	82.102	527.00	47.20000	0.24695	0.25744	0.27000	0.27000
2-M-4HyFuran	1286	86.134	537.00	37.60000	0.26699	0.28992	0.26399	0.26399
C2Oxide	1287	44.054	469.00	71.90000	0.14000	0.13515	0.20200	0.21140
12C3Oxide	1288	58.080	482.20	49.20000	0.18600	0.19201	0.26899	0.25929
12-C4=Oxide	1289	72.100	525.75	43.87400	0.24850	0.24670	0.27000	0.27000
Dioxolane	1290	74.080	500.63	48.83400	0.24050	0.21712	0.69405	0.69405
13C3=Oxide	1291	58.080	520.00	57.50000	0.18800	0.17964	0.20051	0.20051
Trioxane	1292	90.078	604.00	58.20000	0.22400	0.22216	0.33372	0.33372
25DiHyFuran	1293	70.091	542.00	55.00000	0.21600	0.21124	0.22918	0.22918
tBHyPeroxide	1294	90.122	552.00	43.40000	0.29000	0.32385	0.66231	0.66231
MIsoBEther	1295	88.149	497.00	34.10000	0.32900	0.33918	0.31006	0.31006
CC6Peroxide	1296	116.160	685.00	42.10000	0.35600	0.40455	0.75707	0.75707

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
nBC9oate	503.00	858.58	11.27	0.00000e+000	-6.77089e+001	8.32264e-001	-4.98303e-004
MC12oate	540.00	1029.82	9.62	0.00000e+000	-3.31174e+001	7.45880e-001	-3.97832e-004
BzylBZoate	596.65	1115.05	9.18	0.00000e+000	-1.25769e+002	6.58542e-001	-3.04272e-004
DiClPEther	455.85	1108.43	8.45	-1.16306e-004	4.53507e+001	2.68026e-001	-7.96009e-005
Vinyl-M-Ethe	285.00	756.78	10.58	0.00000e+000	1.56398e+001	1.17127e-001	-3.23437e-005
M-E-Ether	280.60	700.00	11.38	0.00000e+000	1.86808e+001	1.34340e-001	-3.41886e-005
Vinyl-E-Ethe	308.70	792.00	10.38	0.00000e+000	1.72913e+001	1.61907e-001	-4.90641e-005
M-P-Ether	311.70	617.22	13.36	0.00000e+000	2.13237e+001	1.69611e-001	-3.75910e-005
M-i-P-Ether	303.90	724.00	11.30	0.00000e+000	1.35386e+001	1.84970e-001	-4.93994e-005
E-P-Ether	336.40	732.00	11.56	0.00000e+000	7.09861e+000	2.48926e-001	-8.56120e-005
B-M-Ether	343.30	744.00	11.45	0.00000e+000	7.09861e+000	2.48926e-001	-8.56120e-005
TAME	359.45	777.52	11.12	-1.10734e-004	-1.53906e+000	3.18252e-001	-1.21136e-004
E-B-Ether	365.40	754.37	11.53	0.00000e+000	2.36445e+001	2.68526e-001	-8.43221e-005
C4==Ether	338.15	810.36	10.46	5.11035e-006	1.78612e+001	1.87804e-001	-6.10015e-005
MPentylEther	372.00	750.00	11.67	0.00000e+000	1.86320e+001	2.66927e-001	-7.62155e-005
diP-Ether	363.20	750.28	11.57	0.00000e+000	1.86320e+001	2.66927e-001	-7.62155e-005
di-i-P-Ether	341.70	724.00	11.75	0.00000e+000	7.50992e+000	2.92635e-001	-1.00963e-004
M-PH-Ether	426.80	996.00	9.20	0.00000e+000	-4.64971e+001	3.25230e-001	-1.44772e-004
disecBEther	394.20	755.00	11.81	-3.33389e-006	1.73395e+001	3.60702e-001	-1.12085e-004
E-PH-Ether	442.00	979.00	9.47	0.00000e+000	-4.60969e+001	3.63522e-001	-1.49374e-004
diB-Ether	413.40	772.14	11.74	0.00000e+000	6.05773e+000	3.86707e-001	-1.36250e-004
di-trt-B-Eth	382.20	781.22	11.30	0.00000e+000	6.05773e+000	3.86707e-001	-1.36250e-004
diPH-Ether	531.20	1058.81	9.30	0.00000e+000	-6.07665e+001	4.64401e-001	-1.95796e-004
diHX-Ether	499.60	1223.80	7.89	0.00000e+000	2.18388e+001	3.49363e-001	-1.20144e-004
Methylal	315.00	865.97	9.56	6.97695e+003	2.63261e+001	5.17280e-002	2.06484e-004
diVinyl-Ethe	301.45	742.26	10.99	0.00000e+000	5.88351e+000	1.61455e-001	-6.18194e-005
12Methoxy-C2	357.00	868.97	9.93	0.00000e+000	3.22505e+001	1.78468e-001	-4.45619e-005
Vinyl-B-Ethe	366.97	783.26	11.12	0.00000e+000	7.55299e+000	2.66616e-001	-8.95946e-005
Paraldehyde	397.25	995.55	8.98	0.00000e+000	-1.22228e+002	5.84801e-001	-3.41036e-004
Acetal	376.75	830.78	10.58	0.00000e+000	-2.48027e+001	3.78467e-001	-1.62943e-004
diEGlydiMEth	432.91	951.57	9.67	0.00000e+000	1.18510e+001	3.31245e-001	-1.16144e-004
E-Bz-Ether	458.15	952.40	9.85	0.00000e+000	-4.97040e+001	4.14152e-001	-1.67347e-004
di-BZ-Ether	561.45	1047.42	9.58	0.00000e+000	-1.00855e+002	6.22484e-001	-2.71473e-004
di-nonyl-Eth	591.00	814.47	12.53	0.00000e+000	-1.55744e+001	8.84809e-001	-3.33447e-004
Furan	304.50	938.00	8.73	0.00000e+000	-3.55411e+001	2.16191e-001	-1.15243e-004
TetraHyFuran	337.00	889.00	9.52	0.00000e+000	1.91120e+001	2.58269e-001	-1.37825e-004
2-M-Furan	337.00	913.00	9.27	0.00000e+000	-9.65022e+000	1.96637e-001	-7.20929e-005
2-M-4HyFuran	351.00	855.00	10.04	0.00000e+000	-4.67362e+001	2.89284e-001	-1.09443e-004
C2Oxide	283.70	882.08	9.06	3.33032e-007	-7.51870e+000	1.11100e-001	-4.18665e-005
12C3Oxide	308.00	835.41	9.83	1.93192e-005	-1.49358e+001	1.80748e-001	-8.59114e-005
12-C4=Oxide	336.35	835.95	10.12	2.75979e-005	-1.17558e+001	2.04806e-001	-6.77803e-005
Dioxolane	351.15	1067.47	8.04	-9.69789e-006	3.01323e+001	1.26372e-001	-1.90807e-005
13C3=Oxide	321.00	905.36	9.20	0.00000e+000	-3.40696e+001	2.07904e-001	-1.24787e-004
Trioxane	387.65	1174.68	7.55	0.00000e+000	9.14098e+000	1.12738e-001	5.80667e-005
25DiHyFuran	339.00	949.68	8.93	0.00000e+000	-9.72814e+000	1.63313e-001	-3.31464e-005
tBHyPeroxide	388.15	898.42	9.88	0.00000e+000	-1.09310e+000	2.88515e-001	-1.67733e-004
MIsoBEther	331.70	734.38	11.47	0.00000e+000	-1.58425e+001	3.13776e-001	-1.75700e-004
CC6Peroxide	490.00	1021.71	9.39	0.00000e+000	-7.55488e+001	5.16091e-001	-4.05192e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
nBC9oate	1.90953e-007	-3.32104e-011	1.00000e+000	-0.08192	-0.69605	Ester	-7561000
MC12oate	1.35186e-007	-2.11686e-011	1.00000e+000	-0.14586	-0.63013	Ester	-7566800
BzylBZoate	4.37040e-008	9.83950e-012	1.00000e+000	-0.68926	-1.13645	Ester	-6690000
DiClPEther	5.60005e-009	1.43933e-018	1.00000e+000	-0.00490	-0.37580	Ether	
Vinyl-M-Ethe	2.65660e-009	-2.93229e-026	1.00000e+000	0.05026	0.03198	Ether	-1774200
M-E-Ether	2.23920e-009	1.09227e-025	1.00000e+000	0.02228	-0.00422	Ether	-1931370
Vinyl-E-Ethe	5.37827e-009	-1.96586e-025	1.00000e+000	-0.12437	-0.25872	Ether	-2372920
M-P-Ether	-7.14209e-010	-2.69442e-025	1.00000e+000	0.09256	-0.10266	Ether	
M-i-P-Ether	3.01447e-009	-1.42206e-025	1.00000e+000	0.00639	-0.25920	Ether	
E-P-Ether	1.25619e-008	-1.33513e-025	1.00000e+000	0.03636	-0.17912	Ether	-3110000
B-M-Ether	1.25619e-008	-1.33513e-025	1.00000e+000	0.00157	-0.31161	Ether	
TAME	1.93254e-008	1.34966e-018	1.00000e+000	0.21712	0.17836	Ether	-163880
E-B-Ether	1.03989e-008	-1.34124e-025	1.00000e+000	-0.03086	-0.36052	Ether	-3725000
C4==Ether	7.07517e-009	-5.56462e-020	1.00000e+000	0.37774	0.47561	Ether	-163880
MPentylEther	6.10887e-009	3.09517e-026	1.00000e+000	-0.00192	-0.33735	Ether	
diP-Ether	6.10887e-009	3.09517e-026	1.00000e+000	0.01882	-0.24255	Ether	-3725000
di-i-P-Ether	1.46216e-008	-1.13490e-025	1.00000e+000	-0.02233	-0.32052	Ether	-3702340
M-PH-Ether	2.81078e-008	-3.27574e-026	1.00000e+000	-0.05237	-0.32207	Ether	-3601800
disecBEther	1.21439e-008	7.41146e-020	1.00000e+000	0.41173	0.45136	Ether	
E-PH-Ether	2.51426e-008	-2.40545e-025	1.00000e+000	-0.00781	-0.34950	Ether	-4204790
diB-Ether	2.02250e-008	-5.25999e-026	1.00000e+000	0.00942	-0.33355	Ether	-4947150
di-trt-B-Eth	2.02250e-008	-5.25999e-026	1.00000e+000	-0.00317	-0.30741	Ether	
diPH-Ether	3.39962e-008	-2.06242e-025	1.00000e+000	-0.07859	-0.44279	Ether	-5920000
diHX-Ether	2.73166e-008	-1.12892e-025	1.00000e+000	-0.01349	-0.55765	Ether	-7383830
Methylal	-2.36669e-007	8.12081e-011	1.00000e+000	0.11721	-0.14034	Ether	-1799700
diVinyl-Ethe	1.02046e-008	6.36964e-026	1.00000e+000	0.02512	-0.06418	Ether	-2259990
12Methoxy-C2	2.10111e-009	2.18402e-025	1.00000e+000	0.06861	-0.20532	Ether	-2401900
Vinyl-B-Ethe	1.15381e-008	-1.41592e-025	1.00000e+000	-0.00771	-0.32376	Ether	-3591440
Paraldehyde	8.31302e-008	3.73647e-025	1.00000e+000	-0.18294	-0.70481	Ether	-3125190
Acetal	3.00212e-008	1.78991e-025	1.00000e+000	0.02561	-0.23160	Ether	-3562500
diEGlydiMEth	1.54040e-008	-2.16771e-025	1.00000e+000	-0.03936	-0.46175	Ether	-3489030
E-Bz-Ether	2.77239e-008	-3.16298e-025	1.00000e+000	-0.17915	-0.52156	Ether	-4820000
di-BZ-Ether	4.95382e-008	-1.90186e-025	1.00000e+000	-0.65403	-1.07237	Ether	-7145150
di-nonyl-Eth	5.40675e-008	1.09253e-025	1.00000e+000	0.46513	-0.48754	Ether	-11100000
Furan	2.68675e-008	2.40582e-026	1.00000e+000	-0.02566	-0.26524	Ether	-1995890
TetraHyFuran	3.63722e-008	8.00904e-026	1.00000e+000	0.01991	-0.21306	Ether	-2325000
2-M-Furan	2.11804e-008	1.74093e-025	1.00000e+000	0.01020	-0.27364	Ether	
2-M-4HyFuran	2.78104e-008	-8.69731e-026	1.00000e+000	0.00481	-0.27579	Ether	
C2Oxide	6.47982e-009	-1.78509e-021	1.00000e+000	0.14767	0.03233	Ether	-1217000
12C3Oxide	1.93508e-008	-2.47736e-019	1.00000e+000	0.26425	0.06089	Ether	-1785200
12-C4=Oxide	6.38055e-009	-3.52800e-019	1.00000e+000	0.25429	0.00424	Ether	-2299990
Dioxolane	-4.98927e-009	1.11161e-019	1.00000e+000	0.44353	0.44344	Ether	
13C3=Oxide	5.21266e-008	-9.34217e-012	1.00000e+000	0.04986	0.15798	Ether	-1801100
Trioxane	-7.52647e-008	2.07654e-011	1.00000e+000	0.67254	-0.37161	Ether	-1383800
25DiHyFuran	-1.55308e-008	6.89414e-012	1.00000e+000	-0.11747	0.17605	Ether	-2160000
tBHyPeroxide	6.29116e-008	-1.09041e-011	1.00000e+000	0.49116	0.45732	Ether	-2736340
MIsoBEther	7.42852e-008	-1.67125e-011	1.00000e+000	-0.03304	-0.26634	Ether	-3121990
CC6Peroxide	2.42630e-007	-7.04011e-011	1.00000e+000	0.50587	0.45117	Ether	-3540000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
MTPentE	1297	102.177	534.00	30.40000	0.38200	0.38216	0.30111	0.30111
ETrtPetEther	1298	116.203	544.00	27.40000	0.43500	0.44773	0.35292	0.35292
Phenetole	1299	122.166	647.15	34.24800	0.39000	0.40011	0.41838	0.41838
2MBenzoFuran	1300	132.162	698.00	36.40000	0.40500	0.39940	0.37418	0.37418
DinPentEther	1301	158.283	622.00	20.90000	0.59300	0.66435	0.60117	0.60117
DinC8Ether	1302	242.445	707.00	14.40000	0.91000	1.13774	0.93362	0.93362
2-CI-Ethanol	1303	80.514	585.00	59.20000	0.21200	0.21978	0.65780	0.65780
Halothane	1304	197.382	521.00	39.20000	0.29600	0.28483	0.09050	0.09050
Br-CI-F2-C1	1305	165.363	426.90	42.50000	0.24548	0.23725	0.18400	0.18400
CCl4	1306	153.822	556.40	45.60000	0.27590	0.27540	0.19300	0.18750
Chloroform	1307	119.375	536.40	53.70000	0.23890	0.25749	0.21796	0.70586
CI2-C1	1308	84.933	510.00	60.70000	0.18500	0.17655	0.19900	0.19584
CH2-CI-F	1309	68.480	424.90	51.20000	0.15850	0.14246	0.19900	0.19900
CIC2	1310	64.510	460.40	53.70000	0.19900	0.18580	0.19099	0.18795
11-CIC2	1311	98.960	523.00	50.70000	0.23600	0.23690	0.23995	0.23646
12-CIC2	1312	98.960	566.00	53.70000	0.22495	0.23261	0.27799	0.27540
11-CIC2=	1313	96.943	482.00	51.90000	0.22400	0.23668	0.27210	0.27210
perCI-C2	1314	236.739	704.40	39.20000	0.41950	0.41313	0.27500	0.27500
11-F-C2	1315	66.051	386.70	45.00000	0.18095	0.17396	0.25600	0.25600
12Br1CIF3C2	1316	276.277	560.70	36.10000	0.36800	0.38855	0.24796	0.24796
CI3-C2=	1317	131.389	572.00	50.50000	0.25600	0.26080	0.21299	0.21299
CI-F3-C2=	1318	116.469	377.00	40.50000	0.21198	0.23657	0.25200	0.25200
111-F-C2	1319	84.041	346.30	37.60000	0.19400	0.22359	0.25099	0.25099
11CI222FC2	1320	152.910	458.15	37.85100	0.28850	0.27906	0.29311	0.29311
12CI1122FC2	1321	170.921	418.90	32.60000	0.29379	0.30379	0.24600	0.25819
CI4-C2=	1322	165.832	620.20	47.60000	0.28960	0.30281	0.24320	0.21377
112-CIC2	1323	133.404	606.00	51.40000	0.28499	0.27665	0.28299	0.25975
1122-CIC2	1324	167.850	661.20	58.20000	0.33000	0.32095	0.30090	0.25920
1122CI12FC2	1325	203.830	551.00	38.70000	0.36689	0.26897	0.29118	0.29118
CI-1122-FC2	1326	136.475	399.90	37.20000	0.24400	0.26392	0.28099	0.28099
CI5-C2	1327	202.294	645.00	34.70000	0.36899	0.36289	0.33700	0.24548
1-ci2-CIC2=	1328	96.944	537.00	55.00000	0.21999	0.21784	0.21705	0.26372
1-tr2-CIC2=	1329	96.944	512.00	48.10000	0.21999	0.21592	0.18520	0.23194
111-CIC2	1330	133.404	545.00	42.00000	0.28499	0.28338	0.21694	0.21694
1-CIC3	1331	78.542	502.00	45.70000	0.24695	0.24334	0.23499	0.22630
12-CIC3	1332	112.986	577.00	44.50000	0.22597	0.28786	0.23995	0.23995
13-CIC3	1333	112.986	602.70	40.10000	0.30150	0.28460	0.28800	0.28800
22-CIC3	1334	112.986	539.50	41.00000	0.29050	0.28606	0.19800	0.19800
123-CIC3	1335	147.432	650.00	39.50000	0.34799	0.32789	0.31000	0.32820
2-CIC3	1336	78.542	485.00	45.20000	0.23000	0.24940	0.23194	0.24717
3-CI-1-C3=	1337	145.419	618.08	41.30300	0.32050	0.31120	0.22836	0.22836
1-CIC4	1338	92.569	542.00	36.70000	0.31200	0.29690	0.21796	0.22650
2-CIC4	1339	92.569	520.60	39.50000	0.30500	0.30384	0.30000	0.29199
2-CI-2-M-C3	1340	92.569	507.00	39.50000	0.29499	0.30493	0.18998	0.19990
1-CI-3-M-C4	1341	106.597	558.90	33.50000	0.35850	0.35800	0.29300	0.29300
2-CI-2-M-C4	1342	106.597	547.00	32.00000	0.35350	0.34441	0.23300	0.23300
Chloroprene	1343	88.536	525.00	42.60000	0.27300	0.26875	0.19300	0.35509
PerCI13C4==	1344	260.760	740.00	28.30000	0.49100	0.50840	0.15500	0.15500

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
MTPentE	359.45	775.01	11.16	0.00000e+000	-7.70426e+000	3.45925e-001	-1.63661e-004
ETrtPetEther	374.15	767.41	11.42	0.00000e+000	-4.39140e+001	4.90003e-001	-3.09840e-004
Phenetole	443.15	969.46	9.57	0.00000e+000	-7.60449e+001	4.53174e-001	-2.70917e-004
2MBenzoFuran	470.65	1050.93	9.00	0.00000e+000	-6.23904e+001	4.49076e-001	-2.77107e-004
DinPentEther	459.90	787.15	11.93	0.00000e+000	-1.86772e+001	5.42134e-001	-2.44742e-004
DinC8Ether	559.65	809.07	12.39	0.00000e+000	-3.50343e+001	8.56192e-001	-3.90033e-004
2-Cl-Ethanol	401.75	1205.93	7.44	4.26522e-006	1.30212e+001	1.27873e-001	-5.51079e-005
Halothane	323.35	1891.89	4.41	-2.64737e-007	6.42627e+001	6.52089e-002	2.55779e-005
Br-Cl-F2-C1	268.00	1843.79	4.25	0.00000e+000	2.50806e+001	1.07901e-001	-6.76361e-005
CCl4	349.90	1601.28	5.35	0.00000e+000	4.07459e+001	1.02515e-001	-7.57104e-005
Chloroform	334.30	1498.17	5.64	3.37342e-008	2.39988e+001	9.46474e-002	-6.13646e-005
Cl2-C1	313.00	1335.96	6.18	0.00000e+000	1.29582e+001	8.12039e-002	-4.34250e-005
CH2-Cl-F	264.10	1284.38	6.08	-4.45956e-007	1.26739e+001	6.98647e-002	-2.95695e-005
CIC2	285.50	902.49	8.88	0.00000e+000	-5.53357e-001	1.30386e-001	-6.13724e-005
11-CIC2	330.50	1182.56	7.11	0.00000e+000	1.24776e+001	1.34887e-001	-6.83757e-005
12-CIC2	356.70	1250.00	6.90	0.00000e+000	2.05025e+001	1.15576e-001	-4.79618e-005
11-CIC2=	304.71	1131.89	7.23	-8.39712e+004	1.56096e+001	1.18160e-001	-8.17248e-005
perCl-C2	459.20	2089.87	4.49	-5.59658e-006	5.23345e+001	1.52245e-001	-1.11565e-004
11-F-C2	248.20	1011.96	7.55	0.00000e+000	8.68056e+001	1.19877e-001	-4.85965e-005
12Br1ClF3C2	366.00	2068.51	4.21	0.00000e+000	5.19235e+000	2.25178e-001	-1.34895e-004
Cl3-C2=	360.40	1460.00	5.93	0.00000e+000	3.01887e+001	1.14421e-001	-7.43454e-005
Cl-F3-C2=	245.30	1305.56	5.83	0.00000e+000	4.08223e+001	9.27815e-002	-4.80004e-005
111-F-C2	225.60	993.36	7.46	0.00000e+000	5.74767e+000	1.57153e-001	-8.66219e-005
11Cl222FC2	300.76	1487.01	5.48	-7.42741e-008	1.83676e+001	1.87246e-001	-1.16666e-004
12Cl1122FC2	276.20	1480.00	5.35	0.00000e+000	3.88040e+001	1.72111e-001	-9.83965e-005
Cl4-C2=	394.40	1627.93	5.48	0.00000e+000	4.59985e+001	1.12818e-001	-7.65117e-005
112-CIC2	386.70	1440.00	6.15	0.00000e+000	6.32595e+000	1.71660e-001	-9.86591e-005
1122-CIC2	419.40	1600.00	5.69	0.00000e+000	2.76869e+001	1.62653e-001	-9.91931e-005
1122Cl12FC2	366.00	2215.62	3.93	0.00000e+000	2.59470e+001	2.64262e-001	-2.18928e-004
Cl-1122-FC2	263.00	1369.18	5.69	0.00000e+000	3.96991e+001	9.69882e-002	-5.04918e-005
Cl5-C2	435.00	1689.15	5.46	0.00000e+000	4.39666e+001	1.68808e-001	-1.11934e-004
1-ci2-CIC2=	333.30	1280.63	6.59	0.00000e+000	1.16167e+001	1.17973e-001	-7.00432e-005
1-tr2-CIC2=	321.90	1260.27	6.62	0.00000e+000	1.82913e+001	1.05066e-001	-5.88367e-005
111-CIC2	347.20	1346.04	6.35	0.00000e+000	1.94823e+001	8.22776e-002	-3.17041e-005
1-CIC3	320.40	867.89	9.59	0.00000e+000	-3.34690e+000	1.81420e-001	-8.36526e-005
12-CIC3	369.50	1149.96	7.59	0.00000e+000	1.04567e+001	1.82865e-001	-8.68562e-005
13-CIC3	393.60	1193.22	7.47	-3.43656e-006	1.77803e+001	1.68662e-001	-7.64869e-005
22-CIC3	342.50	1120.25	7.60	-4.79867e-006	1.07196e+001	2.04857e-001	-1.12299e-004
123-CIC3	427.00	1515.56	6.04	0.00000e+000	2.68972e+001	1.81218e-001	-9.29600e-005
2-CIC3	308.90	867.10	9.48	0.00000e+000	1.84319e+000	1.74514e-001	-7.48467e-005
3-Cl-1-C3=	391.15	1388.40	6.41	0.00000e+000	1.13703e+001	2.07503e-001	-1.31769e-004
1-CIC4	351.60	890.70	9.64	0.00000e+000	-2.61472e+000	2.24989e-001	-9.79658e-005
2-CIC4	341.40	872.00	9.75	0.00000e+000	-3.43528e+000	2.28098e-001	-9.94302e-005
2-Cl-2-M-C3	322.00	842.00	9.90	0.00000e+000	-3.93341e+000	2.32753e-001	-9.62625e-005
1-Cl-3-M-C4	371.70	875.22	9.99	-5.52857e-006	-2.50092e+000	2.79631e-001	-1.24311e-004
2-Cl-2-M-C4	358.80	890.79	9.70	-8.78002e-006	-1.08506e+001	2.91550e-001	-1.28538e-004
Chloroprene	332.55	961.93	8.76	3.07184e-006	2.06936e+001	1.55777e-001	-7.96183e-005
PerCl13C4==	488.15	1567.41	6.11	1.81654e-005	1.01357e+002	1.40891e-001	-1.01442e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
MTPentE	4.86681e-008	-6.97761e-012	1.00000e+000	-0.16177	-0.36765	Ether	-3710000
ETrtPetEther	1.34676e-007	-2.82022e-011	1.00000e+000	-0.06015	-0.38560	Ether	-4319700
Phenetole	1.00738e-007	-1.75527e-011	1.00000e+000	-0.05560	-0.40551	Ether	-4204790
2MBenzoFuran	1.00851e-007	-1.60007e-011	1.00000e+000	0.38960	0.46253	Ether	-4450000
DinPentEther	6.66278e-008	-8.37262e-012	1.00000e+000	-0.16557	-0.60130	Ether	-6170010
DinC8Ether	1.05902e-007	-1.29520e-011	1.00000e+000	0.17955	-0.49461	Ether	-9820000
2-Cl-Ethanol	1.30371e-008	-1.30922e-012	1.00000e+000	-0.06477	-0.98495	Halogen	-1080000
Halothane	-4.20520e-008	1.21993e-011	1.00000e+000	0.21524	-0.31369	Halogen	-158470
Br-Cl-F2-C1	1.60733e-008	-1.29405e-025	1.00000e+000	0.23894	0.12002	Halogen	53200
CCl4	2.21216e-008	2.32981e-025	1.00000e+000	0.13955	-0.15568	Halogen	-258069
Chloroform	1.66416e-008	1.74012e-022	1.00000e+000	0.13379	-0.01488	Halogen	34200
Cl2-C1	1.05264e-008	2.14401e-027	1.00000e+000	0.03204	-0.13375	Halogen	-513879
CH2-Cl-F	5.39423e-009	1.08380e-020	1.00000e+000	0.31904	0.49032	Halogen	
CIC2	1.38789e-008	-1.23763e-025	1.00000e+000	0.08300	-0.03239	Halogen	-1284910
11-CIC2	1.57626e-008	6.99467e-026	1.00000e+000	-0.01766	-0.25088	Halogen	-1109680
12-CIC2	8.47788e-009	6.99467e-026	1.00000e+000	-0.01402	-0.31360	Halogen	-1104980
11-CIC2=	3.28587e-008	-5.65334e-012	1.00000e+000	-0.02864	-0.33441	Halogen	-1004000
perCl-C2	3.21922e-008	1.34543e-019	1.00000e+000	0.37519	0.48049	Halogen	
11-F-C2	8.49033e-009	-2.06753e-025	1.00000e+000	-0.00217	-0.23522	Halogen	-758501
12Br1ClF3C2	2.96280e-008	-5.23066e-026	1.00000e+000	0.01987	-0.25784	Halogen	
Cl3-C2=	2.06232e-008	7.96014e-026	1.00000e+000	0.09188	-0.02575	Halogen	-864113
Cl-F3-C2=	9.94961e-009	1.67585e-025	1.00000e+000	0.42234	-0.49873	Halogen	-213000
111-F-C2	2.10509e-008	7.63738e-026	1.00000e+000	-0.18964	-0.06311	Halogen	-413400
11Cl222FC2	2.95993e-008	5.77219e-022	1.00000e+000	0.16504	-0.43015	Halogen	
12Cl1122FC2	2.12829e-008	3.79689e-025	1.00000e+000	0.33182	-0.28389	Halogen	322000
Cl4-C2=	2.09681e-008	7.11652e-026	1.00000e+000	0.09088	-0.08145	Halogen	-735473
112-CIC2	2.44979e-008	-1.14498e-025	1.00000e+000	-0.12053	-0.40920	Halogen	-963848
1122-CIC2	2.57160e-008	-2.54228e-025	1.00000e+000	-0.06391	-0.35477	Halogen	-834638
1122Cl12FC2	6.86463e-008	1.64653e-025	1.00000e+000	-0.27555	-0.81519	Halogen	-51615.3
Cl-1122-FC2	1.01410e-008	-1.03353e-025	1.00000e+000	0.01578	-0.29484	Halogen	
Cl5-C2	3.03443e-008	7.14927e-026	1.00000e+000	-0.01972	-0.46744	Halogen	-7182110
1-ci2-CIC2=	1.81167e-008	-1.00336e-025	1.00000e+000	-0.01346	-0.16560	Halogen	-994491
1-tr2-CIC2=	1.45189e-008	1.46833e-026	1.00000e+000	-0.00845	-0.18366	Halogen	-999130
111-CIC2	4.85865e-009	-8.75574e-026	1.00000e+000	0.35857	0.49043	Halogen	-691998
1-CIC3	1.86320e-008	-9.12031e-026	1.00000e+000	0.03585	-0.13898	Halogen	-1864500
12-CIC3	1.93648e-008	6.84520e-026	1.00000e+000	-0.06104	-0.44435	Halogen	-1704500
13-CIC3	1.61910e-008	7.98247e-020	1.00000e+000	0.35530	0.47293	Halogen	
22-CIC3	2.78361e-008	1.16161e-019	1.00000e+000	0.34969	0.49207	Halogen	
123-CIC3	2.19840e-008	-1.11651e-025	1.00000e+000	0.36372	0.47124	Halogen	-1553500
2-CIC3	1.46642e-008	-1.34822e-025	1.00000e+000	0.29473	0.08702	Halogen	-1854790
3-Cl-1-C3=	3.52003e-008	-2.20254e-026	1.00000e+000	0.35654	0.49027	Halogen	-1760000
1-CIC4	2.02156e-008	3.27148e-025	1.00000e+000	0.07140	-0.13174	Halogen	-2474170
2-CIC4	2.06531e-008	4.20619e-026	1.00000e+000	-0.07186	-0.36149	Halogen	-2465170
2-Cl-2-M-C3	1.96900e-008	0.00000e+000	1.00000e+000	-0.10557	-0.54455	Halogen	-2449070
1-Cl-3-M-C4	2.59064e-008	1.29159e-019	1.00000e+000	0.37201	0.47093	Halogen	-163880
2-Cl-2-M-C4	2.56464e-008	2.04485e-019	1.00000e+000	0.34452	0.47590	Halogen	
Chloroprene	2.29831e-008	-2.90748e-012	1.00000e+000	0.25700	-0.10579	Halogen	-2200000
PerCl13C4==	3.92139e-008	-6.28604e-012	1.00000e+000	0.09580	-0.52100	Halogen	-1484000

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
1-CIC5	1345	106.597	552.00	33.20000	0.36450	0.36473	0.43700	0.43700
Br-F5-BZ	1346	246.960	601.00	30.30000	0.40000	0.39311	0.35499	0.35499
Cl-BZ	1347	112.555	632.40	45.20000	0.30799	0.30667	0.24898	0.24605
12-Cl-BZ	1348	147.003	729.00	41.00000	0.36000	0.31848	0.10230	0.27200
13-Cl-BZ	1349	147.003	683.95	40.70000	0.35100	0.35214	0.27898	0.27898
14-Cl-BZ	1350	147.003	684.75	40.70000	0.35100	0.35580	0.28464	0.28464
124TriClBZ	1351	181.447	725.00	37.20000	0.39500	0.43431	0.35810	0.64834
PerCl-BZ	1352	284.799	825.80	32.20000	0.55750	0.63767	0.54300	0.54300
Cl-F5-BZ	1353	202.509	570.80	32.20000	0.37599	0.30847	0.40000	0.40000
CF4	1354	88.005	227.60	37.20000	0.13955	0.14390	0.17700	0.17700
12-F-BZ	1355	114.086	554.50	40.70000	0.29950	0.28944	0.32000	0.32000
Cl2-F4-BZ	1356	218.964	626.00	53.20000	0.40000	0.46557	0.62199	0.62199
135-Cl-F3-BZ	1357	235.419	684.90	32.70000	0.44800	0.46151	0.42598	0.42598
AcetylCl	1358	78.498	507.00	58.70000	0.20397	0.20442	0.34400	0.34400
AllylCl	1359	76.526	514.00	47.60000	0.23398	0.22393	0.12996	0.12996
VinylFI	1360	46.044	327.90	52.30000	0.14395	0.18738	0.15700	0.15700
Br2-F2-C1	1361	209.815	471.30	41.20000	0.25000	0.22807	0.17700	0.17700
Fluoroform	1362	70.013	299.30	48.60000	0.13267	0.14105	0.25999	0.59352
F-C1	1363	34.033	315.00	58.70000	0.11320	0.10540	0.18700	0.18510
F2-C1	1364	52.023	351.60	58.20000	0.12080	0.12101	0.27099	0.41563
12-Br-F4-C2	1365	259.821	487.80	33.70000	0.34099	0.32975	0.24500	0.24500
C2-Cl-F5	1366	154.466	353.20	32.20000	0.25180	0.29648	0.27900	0.27900
perF-C2	1367	138.011	293.00	30.60000	0.22200	0.22653	0.24514	0.24514
perF-C2=	1368	100.013	306.50	39.20000	0.17200	0.25630	0.22300	0.22300
11-FC2=	1369	64.035	302.90	44.60000	0.15410	0.24251	0.14000	0.14000
F-C2	1370	48.060	375.30	50.20000	0.16400	0.15770	0.21500	0.21500
perF-C3	1371	188.016	345.10	26.80000	0.29980	0.35885	0.32499	0.32499
F3-C3=	1372	96.051	376.20	37.00000	0.21096	0.29361	0.23800	0.23800
1-Cl-22-FC2=	1373	98.479	400.60	44.60000	0.19697	0.20969	0.21999	0.21999
11122-FC3	1374	134.046	380.10	31.30000	0.27300	0.30298	0.30799	0.30799
perF-C4	1375	238.024	386.40	23.20000	0.37799	0.40865	0.37400	0.37400
perF-CC4	1376	200.026	388.50	27.80000	0.32400	0.34257	0.35600	0.35600
perF-C5	1377	288.031	420.60	20.50000	0.47299	0.50651	0.43200	0.43200
perF-BZ	1378	186.054	516.70	32.00000	0.33500	0.33546	0.39599	0.39599
perF-C6	1379	338.044	448.80	16.60000	0.60600	0.58784	0.51397	0.51397
perF-CC6	1380	300.045	457.20	24.30000	0.45899	0.51058	0.43200	0.43200
perF-2-MC5	1381	338.044	452.00	18.10000	0.55000	0.54847	0.46399	0.46399
perF-3-MC5	1382	338.044	450.00	16.80000	0.55000	0.55585	0.47600	0.47600
perF-23-MC4	1383	338.044	462.00	18.60000	0.52499	0.52732	0.39399	0.39399
F5-BZ	1384	168.063	531.00	35.20000	0.32400	0.32833	0.37299	0.37299
14-F-BZ	1385	114.094	556.00	44.00000	0.29899	0.49314	0.29899	0.29899
1234-F-BZ	1386	150.074	550.80	37.70000	0.31299	0.31510	0.34400	0.34400
1235-F-BZ	1387	150.074	535.30	37.50000	0.31299	0.65118	0.34599	0.34599
1245-F-BZ	1388	150.074	543.40	37.00000	0.31299	0.31926	0.35499	0.35499
Fluoro-BZ	1389	96.104	560.10	45.50000	0.26899	0.27020	0.24400	0.24334
p-F-Toluene	1390	110.126	590.60	38.20000	0.33750	0.33048	0.31100	0.31100
AAAF-Toluene	1391	146.110	562.60	35.60000	0.36250	0.30524	0.32700	0.32700
perF-Toluene	1392	236.061	534.50	27.10000	0.42800	0.44696	0.47499	0.47499

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
1-CIC5	380.20	887.82	9.93	-1.74494e-007	-1.90594e+000	2.67682e-001	-1.10719e-004
Br-F5-BZ	410.00	1920.03	4.71	0.00000e+000	6.79175e+000	2.36439e-001	-1.03259e-004
Cl-BZ	404.90	1106.00	8.14	0.00000e+000	-3.39106e+001	2.81724e-001	-1.50826e-004
12-Cl-BZ	452.00	1450.03	6.44	0.00000e+000	-1.43091e+001	2.75479e-001	-1.50531e-004
13-Cl-BZ	446.23	1294.54	7.18	0.00000e+000	-1.03558e+001	2.73886e-001	-1.63723e-004
14-Cl-BZ	447.21	1252.08	7.43	0.00000e+000	-1.04813e+001	2.73590e-001	-1.62885e-004
124TriClBZ	486.15	1459.44	6.55	-6.80308e-007	1.97273e+000	2.85883e-001	-1.85903e-004
PerCl-BZ	582.60	1556.39	6.53	-3.55617e-006	5.43784e+001	2.71938e-001	-1.71862e-004
Cl-F5-BZ	391.10	1997.54	4.45	0.00000e+000	8.07079e+000	2.30976e-001	-9.86909e-005
CF4	145.10	1606.00	3.98	0.00000e+000	1.39883e+001	1.01366e-001	-5.41998e-005
12-F-BZ	364.70	1163.44	7.47	-2.18510e-006	-2.44979e+001	2.79585e-001	-1.47411e-004
Cl2-F4-BZ	430.90	1566.18	5.87	0.00000e+000	1.48836e+001	2.28187e-001	-9.90000e-005
135-Cl-F3-BZ	471.50	1647.51	5.75	0.00000e+000	2.16991e+001	2.32633e-001	-9.93037e-005
AcetylCl	323.90	1104.00	7.57	0.00000e+000	2.50362e+001	8.56036e-002	-3.28718e-005
AllylCl	318.30	937.00	8.86	0.00000e+000	2.53067e+000	1.52449e-001	-7.59824e-005
VinylFI	201.00	654.28	10.89	0.00000e+000	2.04918e+001	5.96065e-002	-1.22315e-005
Br2-F2-C1	298.00	2462.00	3.30	0.00000e+000	2.95984e+001	1.03165e-001	-6.52856e-005
Fluoroform	191.00	877.14	7.99	0.00000e+000	8.16002e+000	9.07095e-002	-4.59948e-005
F-C1	194.70	422.52	16.69	0.00000e+000	1.38289e+001	4.31079e-002	-6.90775e-006
F2-C1	221.50	994.07	7.40	0.00000e+000	1.17976e+001	5.90870e-002	-1.61538e-005
12-Br-F4-C2	320.40	2174.96	3.83	0.00000e+000	6.60488e+001	1.37511e-001	-8.32716e-005
C2-Cl-F5	235.20	1369.69	5.48	-1.31899e-006	2.78297e+001	1.74596e-001	-9.63655e-005
perF-C2	194.90	1590.00	4.44	0.00000e+000	2.68362e+001	1.73007e-001	-9.56931e-005
perF-C2=	197.20	1031.13	6.87	0.00000e+000	2.90277e+001	1.13918e-001	-6.79057e-005
11-FC2=	187.50	697.34	9.98	0.00000e+000	3.07486e+000	1.22329e-001	-7.00108e-005
F-C2	235.50	730.03	10.29	0.00000e+000	4.34871e+000	1.09071e-001	-3.88912e-005
perF-C3	236.50	1369.31	5.49	0.00000e+000	3.66387e+001	2.40580e-001	-1.29507e-004
F3-C3=	243.00	863.98	8.79	0.00000e+000	3.54832e+000	2.37757e-001	-1.19013e-004
1-Cl-22-FC2=	254.60	1247.68	6.18	0.00000e+000	2.93358e+001	9.37344e-002	-4.65164e-005
11122-FC3	255.70	1164.25	6.63	0.00000e+000	-1.61523e+001	2.67478e-001	-1.36360e-004
perF-C4	271.20	1515.00	5.20	0.00000e+000	2.17300e+001	3.67645e-001	-2.19870e-004
perF-CC4	267.20	1533.56	5.11	0.00000e+000	4.56935e+001	2.43994e-001	-1.27194e-004
perF-C5	302.40	1522.06	5.36	0.00000e+000	-4.96332e+001	5.52919e-001	-3.11376e-004
perF-BZ	353.40	1626.43	5.29	0.00000e+000	3.63025e+001	2.63518e-001	-1.51665e-004
perF-C6	329.80	1628.90	5.16	0.00000e+000	-6.21693e+001	6.60612e-001	-3.73055e-004
perF-CC6	326.00	1647.18	5.08	0.00000e+000	-1.30270e+002	6.90932e-001	-3.76088e-004
perF-2-MC5	330.80	1733.00	4.86	0.00000e+000	-6.21693e+001	6.60612e-001	-3.73055e-004
perF-3-MC5	331.50	1709.06	4.93	0.00000e+000	-6.21693e+001	6.60612e-001	-3.73055e-004
perF-23-MC4	332.90	1791.63	4.71	0.00000e+000	-6.21693e+001	6.60612e-001	-3.73055e-004
F5-BZ	358.90	1507.93	5.73	0.00000e+000	-5.05633e+000	2.34877e-001	-9.91921e-005
14-F-BZ	362.00	679.93	12.75	0.00000e+000	-2.59766e+001	2.86287e-001	-1.56004e-004
1234-F-BZ	367.50	1411.18	6.17	0.00000e+000	-1.13658e+001	2.36000e-001	-1.00004e-004
1235-F-BZ	357.60	676.41	12.77	0.00000e+000	-1.13658e+001	2.36000e-001	-1.00004e-004
1245-F-BZ	363.40	1390.06	6.25	0.00000e+000	-1.13658e+001	2.36000e-001	-1.00004e-004
Fluoro-BZ	357.90	1030.18	8.38	0.00000e+000	-3.87546e+001	2.83635e-001	-1.47898e-004
p-F-Toluene	389.80	1001.46	8.87	-2.72580e-006	-3.36057e+001	3.11467e-001	-1.47410e-004
AAAF-Toluene	375.20	1422.31	6.17	-1.27625e-006	-4.04118e+001	3.65703e-001	-1.95251e-004
perF-Toluene	377.70	1601.43	5.49	0.00000e+000	-1.10733e+001	3.41453e-001	-1.60071e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
1-CIC5	2.10508e-008	4.82822e-021	1.00000e+000	0.40770	0.45470	Halogen	-3085170
Br-F5-BZ	1.80065e-008	1.12215e-025	1.00000e+000	-0.01309	-0.32611	Halogen	
Cl-BZ	3.56718e-008	-2.27303e-026	1.00000e+000	0.00642	-0.24094	Halogen	-2976070
12-Cl-BZ	3.57479e-008	2.22653e-025	1.00000e+000	-0.01335	-0.18355	Halogen	-2824620
13-Cl-BZ	5.55061e-008	-8.04437e-012	1.00000e+000	0.09814	-0.08934	Halogen	-2825000
14-Cl-BZ	5.49139e-008	-7.90541e-012	1.00000e+000	-0.00263	-0.23141	Halogen	-2801990
124TriClBZ	6.85042e-008	-1.07868e-011	1.00000e+000	0.06964	-0.37609	Halogen	-2656300
PerCl-BZ	4.45890e-008	8.16041e-020	1.00000e+000	0.46352	0.45392	Halogen	
Cl-F5-BZ	1.68097e-008	-2.76051e-025	1.00000e+000	-0.03533	-0.30134	Halogen	
CF4	1.12896e-008	2.42149e-025	1.00000e+000	0.77719	-0.02093	Halogen	539685
12-F-BZ	3.41384e-008	5.26606e-020	1.00000e+000	0.37812	0.47326	Halogen	
Cl2-F4-BZ	1.71341e-008	3.92447e-025	1.00000e+000	0.01636	-0.60689	Halogen	-163880
135-Cl-F3-BZ	1.74588e-008	1.36685e-025	1.00000e+000	-0.01071	-0.40182	Halogen	
AcetylCl	5.55096e-009	-3.28940e-025	1.00000e+000	0.01822	-0.12578	Halogen	-876848
AllylCl	1.82442e-008	-1.08180e-025	1.00000e+000	-0.01614	-0.15218	Halogen	-1760000
VinylFI	-4.89731e-010	2.27813e-025	1.00000e+000	0.28830	0.03288	Halogen	-100000
Br2-F2-C1	1.56302e-008	-2.14507e-025	1.00000e+000	0.25023	0.10638	Halogen	34400
Fluoroform	9.85125e-009	4.59518e-026	1.00000e+000	0.12580	-0.05710	Halogen	178850
F-C1	-4.96562e-010	1.58077e-025	1.00000e+000	-0.00174	-0.05079	Halogen	-521929
F2-C1	5.31564e-010	1.20818e-025	1.00000e+000	0.12375	-0.24954	Halogen	-182620
12-Br-F4-C2	2.03824e-008	5.44381e-025	1.00000e+000	0.12533	-0.25444	Halogen	194890
C2-Cl-F5	2.03469e-008	2.95569e-020	1.00000e+000	0.41777	0.48374	Halogen	
perF-C2	2.03499e-008	-1.35872e-025	1.00000e+000	0.33083	-0.02717	Halogen	556999
perF-C2=	1.69550e-008	2.09549e-025	1.00000e+000	0.51077	-0.61237	Halogen	-128000
11-FC2=	1.75639e-008	2.90965e-026	1.00000e+000	0.49112	-0.12545	Halogen	-691998
F-C2	6.02870e-009	6.55131e-026	1.00000e+000	-0.03601	-0.14699	Halogen	-1110000
perF-C3	2.72980e-008	8.02106e-025	1.00000e+000	0.00000	-0.55720	Halogen	523000
F3-C3=	2.37391e-008	5.04331e-025	1.00000e+000	0.05893	-0.30996	Halogen	-99999.7
1-Cl-22-FC2=	9.48886e-009	-1.76502e-025	1.00000e+000	0.19366	-0.49516	Halogen	-579004
11122-FC3	3.84967e-008	2.70704e-026	1.00000e+000	0.01552	-0.32681	Halogen	
perF-C4	5.23312e-008	1.44206e-025	1.00000e+000	0.42397	-0.64240	Halogen	569999
perF-CC4	2.65479e-008	-3.13061e-025	1.00000e+000	0.20970	-0.43191	Halogen	-46100
perF-C5	6.56702e-008	1.01793e-025	1.00000e+000	-0.00171	-0.42271	Halogen	
perF-BZ	3.64232e-008	3.75733e-025	1.00000e+000	0.22754	-0.68120	Halogen	-1369450
perF-C6	7.88194e-008	3.41337e-025	1.00000e+000	0.13605	-0.65846	Halogen	
perF-CC6	7.69369e-008	-3.86284e-025	1.00000e+000	0.00698	-0.43676	Halogen	
perF-2-MC5	7.88194e-008	3.41337e-025	1.00000e+000	-0.01591	-0.42081	Halogen	
perF-3-MC5	7.88194e-008	3.41337e-025	1.00000e+000	-0.01934	-0.43127	Halogen	
perF-23-MC4	7.88194e-008	3.41337e-025	1.00000e+000	-0.01134	-0.36732	Halogen	
F5-BZ	1.68614e-008	-1.40003e-025	1.00000e+000	-0.00723	-0.35400	Halogen	
14-F-BZ	3.68991e-008	-4.03219e-026	1.00000e+000	0.08917	-0.40259	Halogen	
1234-F-BZ	1.72383e-008	-6.81912e-026	1.00000e+000	-0.00504	-0.32767	Halogen	
1235-F-BZ	1.72383e-008	-6.81912e-026	1.00000e+000	0.12392	-0.48216	Halogen	
1245-F-BZ	1.72383e-008	-6.81912e-026	1.00000e+000	-0.00350	-0.34182	Halogen	
Fluoro-BZ	3.38970e-008	-8.24838e-026	1.00000e+000	-0.01666	-0.24537	Halogen	-2814500
p-F-Toluene	3.10335e-008	6.27140e-020	1.00000e+000	0.37686	0.47272	Halogen	
AAAF-Toluene	4.52869e-008	2.97297e-020	1.00000e+000	0.33993	0.45895	Halogen	-2740500
perF-Toluene	2.96325e-008	3.27746e-025	1.00000e+000	-0.01246	-0.44494	Halogen	

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
perF-MCC6	1393	350.053	486.80	23.30000	0.56998	0.57336	0.49099	0.49099
perF-C7	1394	388.049	474.80	16.10000	0.66399	0.65943	0.55598	0.55598
23456-FBZCH	1395	182.091	566.50	31.30000	0.38400	0.39019	0.41499	0.41499
perF-NP	1396	272.092	673.10	20.50000	0.54900	0.55176	0.41699	0.41699
12ClCF3-BZ	1397	215.000	643.75	31.59600	0.46050	0.46110	0.43500	0.42460
BF3	1398	67.810	260.90	49.85200	0.12360	0.11760	0.42970	0.42970
TiCl4	1399	189.729	631.15	46.30500	0.30300	0.28880	0.29510	0.29420
12FCF3-BZ	1400	182.093	541.85	31.03600	0.39849	0.42537	0.43299	0.37940
1Cl2FCF3-BZ	1401	198.500	592.75	31.31500	0.42950	0.42886	0.43399	0.43779
CH3Br	1402	94.939	464.00	65.00000	0.16511	0.15244	0.14422	0.14422
Bromoform	1403	252.731	695.00	60.70000	0.28600	0.26271	0.15610	0.15610
BromoC2	1404	108.966	503.80	62.31500	0.21492	0.20783	0.25330	0.25330
12-BromoC2	1405	187.860	645.00	53.50000	0.22639	0.30375	0.79500	0.79500
BromoC2=	1406	106.949	473.00	71.80000	0.20000	0.19289	0.28208	0.28208
1-BromoC3	1407	123.000	535.50	48.20000	0.26550	0.26176	0.29400	0.29400
2-BromoC3	1408	123.000	522.50	49.00000	0.25950	0.26586	0.26400	0.26400
12-BromoC3	1409	201.889	634.10	54.10000	0.32150	0.32541	0.38400	0.38400
1-BromoC4	1410	137.029	569.50	42.60000	0.32150	0.31959	0.33900	0.33900
2-BromoC4	1411	137.029	558.70	42.00000	0.31550	0.31883	0.30800	0.30800
12-BromoC4	1412	215.919	659.30	47.20000	0.37750	0.38355	0.42900	0.42900
23-BromoC4	1413	215.919	657.00	47.70000	0.37150	0.38227	0.39700	0.39700
2-Br-2-M-C3	1414	137.029	541.10	43.60000	0.31050	0.32059	0.24600	0.24600
1-BromoC5	1415	151.059	564.80	37.70000	0.37750	0.37300	0.38400	0.38400
BromoBZ	1416	157.020	670.10	45.20000	0.32350	0.32043	0.25100	0.25100
CH3I	1417	141.938	525.00	65.90000	0.18424	0.17164	0.14462	0.14462
CH2I2	1418	267.838	740.90	54.20000	0.26750	0.24691	0.18000	0.18000
CHI3	1419	393.730	794.60	53.10000	0.34950	0.30660	0.19300	0.19300
E-Iodide	1420	155.966	552.00	47.00000	0.27049	0.22532	0.15630	0.15630
12-IodoC2	1421	281.859	749.90	47.30000	0.32350	0.26356	0.22300	0.22300
12-IodoC3	1422	295.890	780.50	42.10000	0.37350	0.37437	0.23700	0.23700
1-IodoC3	1423	170.009	589.40	42.70000	0.29150	0.28490	0.22400	0.22400
2-IodoC3	1424	170.009	574.60	43.20000	0.28550	0.28733	0.19500	0.19500
IodoBZ	1425	204.020	721.10	45.20000	0.35100	0.34580	0.24900	0.24900
Epichlorhydrn	1426	92.525	600.00	49.00000	0.23300	0.23334	0.25620	0.25620
oNitroClBZ	1427	157.554	757.00	39.70000	0.43200	0.46875	0.48640	1.10679
mNitroClBZ	1428	157.554	742.00	39.70000	0.43200	0.42577	0.49190	0.84625
pNitroClBZ	1429	157.554	750.00	39.70000	0.43200	0.38522	0.48740	0.48109
24Nitro1ClBZ	1430	202.554	813.77	34.70000	0.47800	0.44602	0.73190	0.50431
FeCl3	1431	162.210	1231.00	27.96200	0.48340	0.16760	-0.31610	-0.31610
BrTriClC1	1432	198.272	606.00	49.70000	0.28400	0.28937	0.19198	0.19198
DiBrDiFC1	1433	209.815	478.00	40.70000	0.24900	0.24133	0.10832	0.10832
CarbonylFlrde	1434	66.007	297.00	57.60000	0.14100	0.15330	0.28294	0.28294
BromoClC1	1435	129.384	557.00	68.10000	0.18800	0.19155	0.22044	0.22044
DiBromoC1	1436	173.835	611.00	71.70000	0.22300	0.20512	0.20945	0.20945
11ClTetraFC2	1437	170.921	418.55	33.00000	0.29400	0.29429	0.25326	0.25326
1112ClF2C2	1438	203.830	552.00	33.40000	0.35100	0.33897	0.25606	0.25606
2Cl1112FC2	1439	136.475	395.65	35.40000	0.24600	0.24447	0.27353	0.27353
12Cl1112FC2	1440	152.929	461.60	36.10000	0.27800	0.27635	0.24101	0.24101

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
perF-MCC6	349.50	1789.00	4.79	0.00000e+000	-1.42646e+002	7.98628e-001	-4.37741e-004
perF-C7	355.60	1733.00	4.97	0.00000e+000	-7.45361e+001	7.68306e-001	-4.34751e-004
23456-FBZCH	390.70	1421.93	6.25	0.00000e+000	-3.95019e+000	3.21485e-001	-1.22529e-004
perF-NP	482.00	1581.75	6.03	0.00000e+000	-9.95353e+000	3.75136e-001	-1.61013e-004
12CICF3-BZ	445.15	1480.00	6.28	0.00000e+000	1.07996e+001	3.22823e-001	-1.71971e-004
BF3	173.35	1571.56	4.32	-2.77308e-008	2.21974e+001	5.99192e-002	-3.00983e-005
TiCl4	408.85	1735.00	5.20	-2.03780e-007	1.06481e+002	4.18392e-005	-3.29055e-005
12FCF3-BZ	375.15	1272.01	6.90	0.00000e+000	-2.79999e+000	3.27849e-001	-1.69306e-004
1Cl2FCF3-BZ	410.15	1440.00	6.28	0.00000e+000	3.99902e+000	3.25272e-001	-1.70598e-004
CH3Br	276.60	1673.53	4.74	-2.39893e-006	1.44299e+001	5.45500e-002	-1.80030e-005
Bromoform	422.45	2900.20	3.15	-1.15443e-007	3.32561e+001	8.76297e-002	-6.53615e-005
BromoC2	311.50	1469.38	5.61	1.87738e-007	2.58684e+001	6.12498e-002	1.98470e-005
12-BromoC2	404.70	2188.79	4.11	-2.43722e-006	2.49997e+001	1.25848e-001	-6.10987e-005
BromoC2=	288.95	1523.18	5.28	0.00000e+000	1.95322e+001	7.05115e-002	-1.82498e-005
1-BromoC3	344.20	1361.18	6.26	2.13421e-006	3.26998e+000	1.68958e-001	-7.18063e-005
2-BromoC3	332.60	1318.39	6.39	1.09360e-006	3.07499e+000	1.75499e-001	-7.70396e-005
12-BromoC3	413.20	1940.75	4.67	-3.88051e-006	1.31869e+001	1.88199e-001	-9.20022e-005
1-BromoC4	374.80	1283.14	6.84	-6.41366e-006	2.26797e+000	2.16698e-001	-9.01822e-005
2-BromoC4	364.40	1267.93	6.85	-1.17046e-006	-4.19997e-002	2.25098e-001	-9.57022e-005
12-BromoC4	439.50	1801.81	5.13	-2.94388e-006	1.74129e+001	2.26622e-001	-1.04656e-004
23-BromoC4	434.20	1790.39	5.15	-9.87469e-007	6.07395e+000	2.47102e-001	-1.18795e-004
2-Br-2-M-C3	346.40	1227.00	6.96	-7.16360e-006	-8.83993e+000	2.64572e-001	-1.33895e-004
1-BromoC5	402.70	1222.84	7.35	-5.02185e-006	1.25399e+000	2.64427e-001	-1.08599e-004
BromoBZ	429.10	1500.93	6.11	-4.09430e-006	-2.83139e+001	2.66289e-001	-1.34906e-004
CH3I	315.70	2292.93	3.61	7.73277e-008	1.08099e+001	6.94494e-002	-3.46993e-005
CH2I2	455.20	3336.35	2.81	-4.57738e-007	2.18158e+001	7.91890e-002	-4.67455e-005
CHI3	491.20	4019.79	2.39	1.53084e-006	4.15511e+001	7.66293e-002	-5.18086e-005
E-Iodide	345.60	1960.59	4.35	1.38169e-006	1.01099e+001	1.12649e-001	-4.60658e-005
12-IodoC2	473.20	3335.70	2.84	1.09553e-006	2.58929e+001	1.17454e-001	-5.61221e-005
12-IodoC3	500.20	2494.95	3.87	9.69534e-007	1.63860e+001	1.82024e-001	-8.76823e-005
1-IodoC3	375.60	1752.66	5.01	-2.84423e-006	1.20519e+001	1.55479e-001	-6.02823e-005
2-IodoC3	362.60	1711.90	5.07	-3.15460e-007	4.87496e+000	1.74382e-001	-7.68789e-005
IodoBZ	461.60	1837.57	5.12	-2.47454e-006	-2.47807e+001	2.66644e-001	-1.38036e-004
Epichlorhydrn	389.26	1186.08	7.49	1.21769e-005	-2.84579e+001	2.59703e-001	-1.89533e-004
oNitroCIBZ	519.00	1375.31	7.11	-2.50005e-007	4.21956e+000	2.76107e-001	-1.25789e-004
mNitroCIBZ	508.85	1376.69	7.05	-3.80899e-006	9.30196e-001	2.84305e-001	-1.34969e-004
pNitroCIBZ	515.15	1359.34	7.17	-1.82476e-006	1.52514e+000	2.85218e-001	-1.36739e-004
24Nitro1CIBZ	587.00	1553.59	6.56	-9.72849e-005	1.60000e+001	2.90710e-001	-1.25639e-004
FeCl3	605.00	2799.45	3.68	-2.21047e+004	6.87543e+001	2.29295e-002	-1.86011e-005
BrTriCIC1	378.05	2012.28	4.37	0.00000e+000	2.31871e+001	1.68557e-001	-1.81972e-004
DiBrDiFC1	295.94	2304.28	3.52	0.00000e+000	2.16942e+001	1.41661e-001	-1.34955e-004
CarbonylFlrde	188.58	697.71	10.00	0.00000e+000	2.39751e+001	4.15412e-002	9.20741e-008
BromoCIC1	341.20	1947.01	4.37	0.00000e+000	2.78132e+001	4.35041e-002	2.84821e-006
DiBromoC1	370.10	2505.64	3.49	0.00000e+000	2.80299e+001	5.28601e-002	-1.45029e-005
11CITetraFC2	276.17	1487.93	5.32	0.00000e+000	1.97390e+001	2.30856e-001	-1.84581e-004
1112CIF2C2	364.65	1697.56	5.12	0.00000e+000	2.14739e+001	2.52925e-001	-2.25316e-004
2CI1112FC2	261.05	1385.75	5.61	0.00000e+000	2.09757e+001	1.72712e-001	-1.04056e-004
12CI112FC2	301.15	1488.81	5.48	0.00000e+000	1.97577e+001	1.94665e-001	-1.36513e-004

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Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
perF-MCC6	9.00851e-008	3.53463e-026	1.00000e+000	-0.00487	-0.45429	Halogen	
perF-C7	9.19665e-008	-7.93455e-025	1.00000e+000	-0.02197	-0.48647	Halogen	
23456-FBZCH	3.04471e-008	1.83865e-026	1.00000e+000	-0.01187	-0.38804	Halogen	
perF-NP	2.75458e-008	4.67063e-025	1.00000e+000	-0.03177	-0.38378	Halogen	
12CICF3-BZ	3.86237e-008	-1.30257e-025	1.00000e+000	-0.01141	-0.40233	Halogen	-163880
BF3	6.18776e-009	-1.00889e-013	1.00000e+000	-0.01110	-0.34950	Halogen	
TiCl4	-1.46322e-017	4.89585e-021	1.00000e+000	0.28570	0.09090	Halogen	
12FCF3-BZ	3.69243e-008	-2.57414e-025	1.00000e+000	-0.00187	-0.42697	Halogen	-163880
1Cl2FCF3-BZ	3.77650e-008	-2.70586e-025	1.00000e+000	-0.01166	-0.39941	Halogen	-163880
CH3Br	2.49996e-009	5.72568e-020	1.00000e+000	0.33100	0.51349	Halogen	
Bromoform	2.69922e-008	-4.67717e-012	1.00000e+000	0.21912	-0.06407	Halogen	-439730
BromoC2	-2.76059e-008	7.11376e-012	1.00000e+000	0.06233	-0.18492	Halogen	-1284400
12-BromoC2	1.41148e-008	5.50813e-020	1.00000e+000	0.60056	0.52361	Halogen	
BromoC2=	-3.73537e-009	2.29589e-012	1.00000e+000	-0.06788	-0.19036	Halogen	-1212690
1-BromoC3	1.42754e-008	-4.99247e-020	1.00000e+000	0.38912	0.48621	Halogen	
2-BromoC3	1.55454e-008	-2.66786e-020	1.00000e+000	0.39351	0.49352	Halogen	-1886150
12-BromoC3	2.04758e-008	9.05405e-020	1.00000e+000	0.43276	0.48503	Halogen	
1-BromoC4	1.73451e-008	1.49737e-019	1.00000e+000	0.39933	0.47686	Halogen	
2-BromoC4	1.87594e-008	2.45155e-020	1.00000e+000	0.39535	0.48172	Halogen	
12-BromoC4	2.20145e-008	6.79396e-020	1.00000e+000	0.43828	0.47554	Halogen	
23-BromoC4	2.54366e-008	2.64517e-020	1.00000e+000	0.43501	0.47997	Halogen	
2-Br-2-M-C3	3.07442e-008	1.66482e-019	1.00000e+000	0.38914	0.49303	Halogen	
1-BromoC5	2.04288e-008	1.17314e-019	1.00000e+000	0.38479	0.44110	Halogen	
BromoBZ	2.99244e-008	9.60052e-020	1.00000e+000	0.36858	0.48687	Halogen	
CH3I	8.71489e-009	-2.20606e-021	1.00000e+000	0.33125	0.51125	Halogen	
CH2I2	1.23028e-008	1.11320e-020	1.00000e+000	0.32419	0.49758	Halogen	
CHI3	1.45884e-008	-3.45892e-020	1.00000e+000	0.32775	0.49578	Halogen	
E-Iodide	8.82740e-009	-3.33331e-020	1.00000e+000	0.29228	0.49038	Halogen	
12-IodoC2	1.22904e-008	-2.70204e-020	1.00000e+000	0.30138	0.47920	Halogen	
12-IodoC3	1.95434e-008	-2.33768e-020	1.00000e+000	0.35989	0.48591	Halogen	
1-IodoC3	1.05049e-008	6.60140e-020	1.00000e+000	0.35327	0.48798	Halogen	
2-IodoC3	1.56238e-008	6.59890e-021	1.00000e+000	0.35428	0.49511	Halogen	-1919650
IodoBZ	3.14244e-008	5.89200e-020	1.00000e+000	0.36706	0.48690	Halogen	
Epichlorhydrn	8.20826e-008	-1.46925e-011	1.00000e+000	0.26728	-0.18191	Halogen	-1660500
oNitroCIBZ	2.25091e-008	2.64840e-013	1.00000e+000	-0.24046	-0.67740	Halogen	-2810000
mNitroCIBZ	2.72318e-008	-6.70896e-013	1.00000e+000	0.29613	-0.10112	Halogen	-2810000
pNitroCIBZ	2.83934e-008	-9.28586e-013	1.00000e+000	-0.11189	-0.50954	Halogen	-2810000
24Nitro1CIBZ	2.11244e-008	1.20210e-018	1.00000e+000	-0.42100	-1.04691	Halogen	-2760000
FeCl3	7.19502e-009	-1.01502e-012	1.00000e+000	0.00000	1.00000	Halogen	
BrTriCIC1	9.92294e-008	-2.13077e-011	1.00000e+000	-0.07255	-0.44221	Halogen	-303000
DiBrDiFC1	6.79402e-008	-1.38561e-011	1.00000e+000	0.25966	0.10900	Halogen	34400
CarbonylFlrde	-1.45948e-008	5.12557e-012	1.00000e+000	0.61297	-0.32132	Halogen	245000
BromoCIC1	-1.47331e-008	4.72315e-012	1.00000e+000	-0.15003	-0.33031	Halogen	-544000
DiBromoC1	-2.53917e-009	1.68869e-012	1.00000e+000	-0.06258	-0.19875	Halogen	
11CITetraFC2	7.68372e-008	-1.29567e-011	1.00000e+000	0.14633	-0.43247	Halogen	139800
1112CIF2C2	1.06201e-007	-2.04020e-011	1.00000e+000	0.23978	-0.50959	Halogen	-488000
2CI1112FC2	3.03787e-008	-3.01651e-012	1.00000e+000	0.02498	-0.24555	Halogen	16760
12CI112FC2	5.02565e-008	-7.50537e-012	1.00000e+000	0.07544	-0.28060	Halogen	-172400

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Component Database

Name	ID	Mol. Wt.	Critical Temperature (C)	Critical Pressure (bar_g)	Critical Volume (m3/kgmole)	Char. Volume (m3/kgmole)	Accentric Factor	SRK Accentric Factor
1122BromoC2	1441	345.653	824.00	46.00000	0.40100	0.36889	0.17703	0.17703
111ClFC2	1442	151.393	565.00	39.90000	0.29400	0.27738	0.25008	0.25008
1112ClC2	1443	167.848	624.00	40.20000	0.32500	0.32532	0.24220	0.24220
1122FC2	1444	102.027	391.00	37.70000	0.19100	0.18624	0.18498	0.18498
VinylBromide	1445	106.946	473.00	71.80000	0.20000	0.19289	0.28208	0.28208
11ClFC2	1446	116.946	477.30	44.00000	0.25400	0.25582	0.24325	0.24325
23ClC3=	1447	110.970	577.00	43.80000	0.27700	0.26538	0.20608	0.20608
2ClC3=	1448	76.525	478.00	47.10000	0.23400	0.22572	0.15251	0.15251
11ClC3	1449	112.986	560.00	42.40000	0.29100	0.28900	0.25293	0.25293
2BromoC3	1450	122.989	532.00	55.10000	0.26600	0.26946	0.24319	0.24319
2C3Choride	1451	78.541	489.00	45.40000	0.24700	0.24903	0.22399	0.22399
2C3Iodide	1452	169.992	578.00	51.20000	0.29000	0.29072	0.23799	0.23799
Cl613C4==	1453	260.760	738.00	28.40000	0.55000	0.47291	0.16836	0.16836
13Cltrns2C4=	1454	124.997	618.00	37.80000	0.32500	0.32137	0.24181	0.24181
14Clcis2C4=	1455	124.997	640.00	37.80000	0.34300	0.32225	0.33056	0.33056
14Cltrns2C4=	1456	124.997	646.00	37.80000	0.33000	0.32355	0.33334	0.33334
34Cl1C4=	1457	124.997	589.00	38.50000	0.33000	0.32282	0.30021	0.30021
14ClC4	1458	127.013	641.00	36.10000	0.34300	0.34207	0.32215	0.32215
15ClC5	1459	141.039	663.00	31.90000	0.42200	0.40412	0.38512	0.38512
1ClC5	1460	106.595	568.00	33.50000	0.35200	0.35886	0.33393	0.33393
135ClBZ	1461	181.447	718.00	37.20000	0.42500	0.40499	0.35956	0.35956
mDiBromoBZ	1462	235.906	761.00	46.60000	0.37200	0.38390	0.29324	0.29324
BenzoTriF	1463	146.110	559.90	32.10000	0.35600	0.36061	0.29981	0.29981
BZylDiCl	1464	161.029	731.00	36.50000	0.40400	0.40880	0.32639	0.32639
pBromToluene	1465	171.037	699.00	43.70000	0.37900	0.38404	0.31793	0.31793
oClToluene	1466	126.583	656.00	39.10000	0.35400	0.36009	0.30444	0.30444
pClToluene	1467	126.583	660.00	39.10000	0.36000	0.36634	0.31226	0.31226
1BromoC7	1468	179.100	651.00	30.80000	0.47700	0.50115	0.44348	0.44348
1BrNaphthaln	1469	207.070	824.00	37.00000	0.45300	0.46070	0.36925	0.36925
1ClNaphthaln	1470	162.617	785.00	34.00000	0.43400	0.45382	0.38273	0.38273

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Component Database

Name	Norm. Boiling Point (K)	Standard Density (kg/m3)	Watson Factor	Enthalpy Term A (kJ/kgmole)	Enthalpy Term B (kJ/kgmole/K)	Enthalpy Term C (kJ/kgmole/K^2)	Enthalpy Term D (kJ/kgmole/K^3)
1122BromoC2	516.65	2940.32	3.32	0.00000e+000	4.92442e+001	1.25004e-001	-6.51335e-005
111ClFC2	366.00	1592.30	5.47	0.00000e+000	1.94794e+001	1.95972e-001	-1.57090e-004
1112CIC2	403.65	1547.43	5.81	0.00000e+000	2.56054e+001	1.80727e-001	-1.35869e-004
1122FC2	250.15	1323.44	5.79	0.00000e+000	2.62793e+001	1.38646e-001	-7.89079e-005
VinylBromide	288.95	1523.18	5.28	0.00000e+000	1.95317e+001	7.05095e-002	-1.82489e-005
11ClFC2	305.15	1249.43	6.56	0.00000e+000	1.41695e+001	1.70991e-001	-1.22117e-004
23CIC3=	365.75	1214.52	7.16	0.00000e+000	3.01585e+001	1.30160e-001	-6.88088e-005
2CIC3=	295.80	907.67	8.93	0.00000e+000	3.47175e+001	8.19232e-002	-6.72624e-006
11CIC3	361.25	1138.14	7.61	0.00000e+000	3.77482e+001	1.05879e-001	1.15891e-005
2BromoC3	332.56	1302.13	6.47	0.00000e+000	3.10095e+001	9.78186e-002	2.03244e-005
2C3Choride	308.85	867.04	9.48	0.00000e+000	4.73303e+001	3.49926e-002	1.09552e-004
2C3Iodide	362.65	1713.03	5.06	0.00000e+000	3.12544e+001	1.01238e-001	1.43817e-005
Cl613C4=	486.15	1689.06	5.66	0.00000e+000	9.97152e+001	1.43622e-001	-1.03436e-004
13Cltrns2C4=	402.00	1163.33	7.72	0.00000e+000	3.34085e+001	1.64315e-001	-7.42575e-005
14Clcis2C4=	425.65	1198.96	7.63	0.00000e+000	1.24962e+000	2.48969e-001	-1.45439e-004
14Cltrns2C4=	429.26	1198.06	7.66	0.00000e+000	4.61714e+000	2.27818e-001	-1.40567e-004
34Cl1C4=	388.00	1159.30	7.65	0.00000e+000	4.57515e+001	1.33379e-001	-5.20338e-005
14CIC4	427.05	1145.65	8.00	0.00000e+000	-3.06700e+000	2.66777e-001	-1.59570e-004
15CIC5	453.15	1105.18	8.45	0.00000e+000	1.60591e+000	3.01546e-001	-1.65491e-004
1CIC5	381.54	886.91	9.95	0.00000e+000	2.38546e+001	1.97925e-001	-2.45105e-005
135CIBZ	481.55	1386.06	6.88	0.00000e+000	8.84975e-001	2.89664e-001	-1.91425e-004
mDiBromoBZ	491.15	1959.64	4.90	0.00000e+000	2.45668e+001	1.79036e-001	-3.96721e-005
BenzoTriF	375.20	1193.56	7.35	0.00000e+000	-2.94049e+000	2.67653e-001	-8.35030e-005
BZylDiCl	487.00	1256.67	7.62	0.00000e+000	-2.47508e+001	3.31937e-001	-1.88542e-004
pBromToluene	457.50	1397.17	6.71	0.00000e+000	-9.36060e+000	2.69799e-001	-1.13934e-004
oClToluene	432.30	1086.19	8.47	0.00000e+000	-1.02981e+001	2.35742e-001	-3.75943e-006
pClToluene	435.65	1071.56	8.61	0.00000e+000	-1.02981e+001	2.35742e-001	-3.75943e-006
1BromoC7	452.05	1144.44	8.16	0.00000e+000	-8.08329e+000	3.77054e-001	-1.59749e-004
1BrNaphthaln	554.25	1487.71	6.72	0.00000e+000	-4.72004e+001	4.32246e-001	-2.52708e-004
1ClNaphthaln	532.45	1179.18	8.36	0.00000e+000	-5.99943e+001	4.61930e-001	-2.85645e-004

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :

Component Database

Name	Enthalpy Term E (kJ/kgmole/K ⁴)	Enthalpy Term F (kJ/kgmole/K ⁵)	Entropy Term	Viscosity A Term	Viscosity B Term	Type	Heat of Combustion (kJ/kgmole)
1122BromoC2	1.38904e-008	-1.27542e-013	1.00000e+000	-0.66462	-0.91991	Halogen	-911000
111ClFC2	7.14988e-008	-1.38088e-011	1.00000e+000	-0.06679	-0.47488	Halogen	-692000
1112ClC2	5.84344e-008	-1.06979e-011	1.00000e+000	-0.08346	-0.46723	Halogen	-837800
1122FC2	2.56606e-008	-3.65849e-012	1.00000e+000	0.42313	-0.77938	Halogen	-136400
VinylBromide	-3.73523e-009	2.29579e-012	1.00000e+000	-0.06788	-0.19036	Halogen	-1212690
11ClFC2	5.12126e-008	-9.26736e-012	1.00000e+000	0.07472	-0.22452	Halogen	-784300
23ClC3=	2.17289e-008	-2.93330e-012	1.00000e+000	-0.08515	-0.46240	Halogen	-1580000
2ClC3=	-1.24864e-008	3.89279e-012	1.00000e+000	-0.01036	-0.22831	Halogen	-1760000
11ClC3	-3.75597e-008	1.16706e-011	1.00000e+000	-0.01224	-0.27690	Halogen	-1720000
2BromoC3	-4.02168e-008	1.17502e-011	1.00000e+000	-0.15426	-0.35970	Halogen	-1886150
2C3Choride	-9.67052e-008	2.50587e-011	1.00000e+000	-0.04453	-0.27040	Halogen	-1854790
2C3Iodide	-3.62516e-008	1.07915e-011	1.00000e+000	-0.07206	-0.21638	Halogen	-1919650
Cl613C4=	3.97239e-008	-6.31107e-012	1.00000e+000	-0.45349	-0.81807	Halogen	-1484000
13Cltrns2C4=	1.96692e-008	-2.40066e-012	1.00000e+000	-0.12220	-0.41729	Halogen	-2180000
14Clcis2C4=	5.35255e-008	-8.66259e-012	1.00000e+000	-0.18715	-0.42507	Halogen	-2331980
14Cltrns2C4=	5.48678e-008	-9.61804e-012	1.00000e+000	-0.17944	-0.40899	Halogen	-2186950
34Cl1C4=	2.97853e-008	-1.25665e-011	1.00000e+000	-0.06899	-0.42085	Halogen	-2200000
14ClC4	6.12330e-008	-1.07585e-011	1.00000e+000	0.06699	-0.28778	Halogen	-2319990
15ClC5	5.89330e-008	-9.80629e-012	1.00000e+000	-0.00348	-0.38200	Halogen	-2926110
1ClC5	-2.65955e-008	9.59975e-012	1.00000e+000	-0.02696	-0.31418	Halogen	-3085170
135ClBZ	7.21916e-008	-1.17086e-011	1.00000e+000	0.84408	0.09387	Halogen	-2667000
mDiBromoBZ	-2.07606e-008	9.67347e-012	1.00000e+000	-0.59763	-0.83709	Halogen	-2886300
BenzoTriF	-9.56218e-009	8.68158e-012	1.00000e+000	-0.07019	-0.32309	Halogen	-2740500
BZylDiCl	6.21574e-008	-9.03543e-012	1.00000e+000	-0.25216	-0.47888	Halogen	-3440000
pBromToluene	2.05243e-008	-2.92711e-013	1.00000e+000	0.00763	-0.13570	Halogen	-3620000
oClToluene	-9.82274e-008	4.36141e-011	1.00000e+000	-0.01939	-0.25008	Halogen	-3569990
pClToluene	-9.82274e-008	4.36141e-011	1.00000e+000	-0.03883	-0.21633	Halogen	-3569990
1BromoC7	2.97711e-008	7.94009e-013	1.00000e+000	0.03208	-0.26972	Halogen	-4330000
1BrNaphthaln	8.44895e-008	-1.22274e-011	1.00000e+000	0.39462	0.46491	Halogen	-4882420
1ClNaphthaln	1.01916e-007	-1.57209e-011	1.00000e+000	-0.90288	-1.16745	Halogen	4836420

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :
 Scenario : PSV-2141/2142 BLOCKED OUTLET

Source Data

Name	Location	Outlet Pipe	Type	Ignored	Inlet Pressure (bar_g)	Inlet Temp. Spec. (C)	Allowable Backpressure (bar_g)
PV-2152	STATION OUTLET	Pipe5	Control Valve	Yes	51.687	60	25.337
PSV-2111/2112	V-2104	Pipe2	Relief Valve	Yes	9.664	195	0.899
PSV-2113/2114	V-2105	Pipe9	Relief Valve	Yes	8.785	280	3.595
PSV-2121A	V-2101A	Pipe10	Relief Valve	Yes	9.664	234.5	0.899
PSV-2131A	V-2102A	Pipe11	Relief Valve	Yes	25.394	123.89	2.199
BDV-2131A	V-2102 A OUTLET	Pipe15	Control Valve	Yes	59.987	60	29.487
PSV-2122A/2123A	C-2101A	Pipe16	Relief Valve	Yes	23.085	132	2.199
PSV-2141/2142	V-2103	Pipe41	Relief Valve	No	67.085	139	3.987
BDV-2141	V-2103	Pipe35	Control Valve	Yes	59.987	60	29.487
PSV-2271	V-2205	Pipe49	Relief Valve	Yes	9.664	251	0.899
BDV-2132 A	AC-2122 OUTLET	Pipe53	Control Valve	Yes	8.987	25	3.987
PSV-2132A/2133A	C-2102A	Pipe76	Relief Valve	Yes	67.085	132	2.199
XV-2110	V-2105	Pipe78	Control Valve	Yes	8.987	25	3.987
BDV-2151	PK-2101	Pipe113	Control Valve	Yes	59.987	60	29.487
PSV-2121B	V-2101B	Pipe115	Relief Valve	Yes	9.664	234.5	0.899
PSV-2131B	V-2102B	Pipe116	Relief Valve	Yes	25.394	123.89	2.199
BDV-2131 B	V-2102 B OUTLET	Pipe119	Control Valve	Yes	59.987	60	29.487
PSV-2122B/2123B	C-2101B	Pipe120	Relief Valve	Yes	24.185	132	2.199
BDV-2132 B	AC-2122 OUTLET	Pipe124	Control Valve	Yes	8.987	25	3.987
PSV-2132B/2133B	C-2102B	Pipe125	Relief Valve	Yes	68.185	132	2.199
PSV-2121C	V-2101C	Pipe139	Relief Valve	Yes	9.664	234.5	0.899
PSV-2131C	V-2102C	Pipe140	Relief Valve	Yes	25.394	123.89	2.199
BDV-2131 C	V-2102 C OUTLET	Pipe143	Control Valve	Yes	59.987	60	29.487
PSV-2122C/2123C	C-2101C	Pipe144	Relief Valve	Yes	24.185	132	2.199
BDV-2132 C	AC-2122 OUTLET	Pipe147	Control Valve	Yes	8.987	25	3.987
PSV-2132C/2133C	C-2102C	Pipe148	Relief Valve	Yes	68.185	132	2.199
PCV-2135A	AC-2102A	Pipe151	Control Valve	Yes	8.987	25	3.987
PCV-2135B	AC-2102B	Pipe154	Control Valve	Yes	8.987	25	3.987
PCV-2135C	AC-2102C	Pipe155	Control Valve	Yes	8.987	25	3.987
PSV-2293	V-2107	Pipe157	Relief Valve	Yes	8.987	25	3.987

Aspen Flare System Analyzer V11 - aspenONE



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User Name : Undefined
 Job Code :
 Project : BINAK
 Description :
 Scenario : PSV-2141/2142 BLOCKED OUTLET

Source Data

Name	Outlet Temperature (C)	Mass Flow (kg/hr)	Rated Mass Flow (kg/hr)	Volumetric Flow (m3/hr)	Outlet Flange Diameter (mm)	Valves	Relief Valve Type	Orifice Area (mm2)	Orifice
PV-2152	44.058	17,605.044		318.482					
PSV-2111/2112	192.110	10,783.190	12,164.764	853.436		1	Balanced	4,116.129	api_P
PSV-2113/2114	278.780	17,833.000	20,131.869	3,127.457		1	Balanced	4,116.129	api_P
PSV-2121A	232.050	533.350	813.596	105.674		1	Balanced	70.968	api_D
PSV-2131A	119.210	1,401.500	2,200.620	81.759		1	Balanced	70.968	api_D
BDV-2131A	43.954	5,594.000		299.399					
PSV-2122A/2123A	122.334	8,881.000	12,993.892	563.002		1	Conventional	830.323	api_J
PSV-2141/2142	114.550	17,763.113	22,049.725	339.174		1	Conventional	506.452	api_H
BDV-2141	43.950	5,594.000		100.976					
PSV-2271	248.740	204.200	448.578	36.292		1	Balanced	70.968	api_D
BDV-2132 A	25.000	0.000		0.000					
PSV-2132A/2133A	122.334	8,881.000	12,993.892	162.756		1	Conventional	324.516	api_G
XV-2110	25.000	0.000		0.000					
BDV-2151	43.950	5,594.000		101.170					
PSV-2121B	232.050	533.350	813.596	94.792		1	Balanced	70.968	api_D
PSV-2131B	119.210	1,401.500	2,200.620	85.603		1	Balanced	70.968	api_D
BDV-2131 B	43.954	5,594.000		299.399					
PSV-2122B/2123B	122.334	8,881.000	12,993.892			1	Conventional	830.323	api_J
BDV-2132 B	25.000	0.000		0.000					
PSV-2132B/2133B	122.334	8,881.000	12,993.892			1	Conventional	324.516	api_G
PSV-2121C	232.050	533.350	813.596	94.792		1	Balanced	70.968	api_D
PSV-2131C	119.210	1,401.500	2,200.620	81.759		1	Balanced	70.968	api_D
BDV-2131 C	43.954	5,594.000							
PSV-2122C/2123C	122.334	8,881.000	12,993.892			1	Balanced	830.323	api_J
BDV-2132 C	25.000	0.000							
PSV-2132C/2133C	122.334	8,881.000	12,993.892			1	Balanced	324.516	api_G
PCV-2135A	25.000	0.000		0.000					
PCV-2135B	25.000	0.000		0.000					
PCV-2135C	25.000	0.000							
PSV-2293	25.000	0.000	0.000			1	Conventional	506.452	api_H

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :
 Scenario : PSV-2141/2142 BLOCKED OUTLET

Source Data

Name	Back Pres. Limit (bar_g)	Outlet Fitting Loss Method	Inlet Length (m)	Inlet Elev. Change (m)	Inlet Material	Inlet Roughnes (mm)	Inlet Nom. Diameter	Inlet Schedule
PV-2152		Calculated	2.000	1.000	Carbon Steel	0.046	4 inch	40
PSV-2111/2112		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2113/2114		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2121A		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2131A		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
BDV-2131A		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2122A/2123A		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2141/2142		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
BDV-2141		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2271		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
BDV-2132 A		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2132A/2133A		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
XV-2110		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
BDV-2151		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2121B		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2131B		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
BDV-2131 B		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2122B/2123B		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
BDV-2132 B		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2132B/2133B		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2121C		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2131C		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
BDV-2131 C		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2122C/2123C		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
BDV-2132 C		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2132C/2133C		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PCV-2135A		Calculated	20.000	0.000	Carbon Steel	0.046	4 inch	40
PCV-2135B		Calculated	0.000	0.000	Carbon Steel	0.046	4 inch	40
PCV-2135C		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40
PSV-2293		Calculated	0.000	0.000	Carbon Steel	0.046	12 inch	40

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :
 Scenario : PSV-2141/2142 BLOCKED OUTLET

Source Data

Name	Inlet Intern Diameter (mm)	Inlet Pip Class	Inlet Fitting Loss A	Inlet Fitting Loss B	Static Inlet Pres. Drop (bar)	VLE Method	Inlet Temp. Calc. (C)	Vapour Fraction	Enthalpy (kJ/hr)
PV-2152	102.260	No	0.000	0.000	0.017	Model Default	60.000	1.000	13,003.106
PSV-2111/2112	303.225	No	0.000	0.000	0.000	Model Default	195.000	1.000	16,286.727
PSV-2113/2114	303.225	No	0.000	0.000	0.000	Model Default	280.000	1.000	25,995.302
PSV-2121A	303.225	No	0.000	0.000	0.000	Model Default	234.500	1.000	17,953.785
PSV-2131A	303.225	No	0.000	0.000	0.000	Model Default	123.890	1.000	13,568.149
BDV-2131A	303.225	No	0.000	0.000	0.000	Model Default	60.000	1.000	13,387.583
PSV-2122A/2123A	303.225	No	0.000	0.000	0.000	Model Default	132.000	1.000	13,881.158
PSV-2141/2142	303.225	No	0.000	0.000	0.000	Model Default	139.000	1.000	16,889.547
BDV-2141	303.225	No	0.000	0.000	0.000	Model Default	60.000	1.000	13,387.583
PSV-2271	303.225	No	0.000	0.000	0.000	Model Default	251.000	1.000	18,629.172
BDV-2132 A	303.225	No	0.000	0.000	NaN	Model Default	25.000	1.000	9,898.491
PSV-2132A/2133A	303.225	No	0.000	0.000	0.000	Model Default	132.000	1.000	13,881.158
XV-2110	303.225	No	0.000	0.000	NaN	Model Default	25.000	1.000	9,898.491
BDV-2151	303.225	No	0.000	0.000	0.000	Model Default	60.000	1.000	13,387.583
PSV-2121B	303.225	No	0.000	0.000	0.000	Model Default	234.500	1.000	17,953.785
PSV-2131B	303.225	No	0.000	0.000	0.000	Model Default	123.890	1.000	13,568.149
BDV-2131 B	303.225	No	0.000	0.000	0.000	Model Default	60.000	1.000	13,387.583
PSV-2122B/2123B	303.225	No	0.000	0.000	0.000	Model Default	132.000	1.000	13,881.158
BDV-2132 B	303.225	No	0.000	0.000	NaN	Model Default	25.000	1.000	9,898.491
PSV-2132B/2133B	303.225	No	0.000	0.000	0.000	Model Default	132.000	1.000	13,881.158
PSV-2121C	303.225	No	0.000	0.000	0.000	Model Default	234.500	1.000	17,953.785
PSV-2131C	303.225	No	0.000	0.000	0.000	Model Default	123.890	1.000	13,568.149
BDV-2131 C	303.225	No	0.000	0.000	0.000	Model Default	60.000	1.000	13,387.583
PSV-2122C/2123C	303.225	No	0.000	0.000	0.000	Model Default	132.000	1.000	13,881.158
BDV-2132 C	303.225	No	0.000	0.000	NaN	Model Default	25.000	1.000	9,898.491
PSV-2132C/2133C	303.225	No	0.000	0.000	0.000	Model Default	132.000	1.000	13,881.158
PCV-2135A	102.260	No	0.000	0.000	NaN	Model Default	25.000	1.000	9,898.491
PCV-2135B	102.260	No	0.000	0.000	NaN	Model Default	25.000	1.000	9,898.491
PCV-2135C	303.225	No	0.000	0.000	NaN	Model Default	25.000	1.000	9,898.491
PSV-2293	303.225	No	0.000	0.000	NaN	Model Default		0.000	

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :
 Scenario : PSV-2141/2142 BLOCKED OUTLET

Source Data

Name	Entropy (kJ/kgmole/K)	Energy (kJ/hr)	Composition Basis	Mol. Wt.	SPL (dB)	H2O	CO2	H2S
PV-2152	234.496	7,496,707.673	Mole Fractions	30.536		0.646002	0.139029	0.078131
PSV-2111/2112	234.160	5,494,362.761	Molecular Weight	31.964		0.463385	0.536615	0.000000
PSV-2113/2114	269.733	8,905,959.128	Molecular Weight	24.520		0.000000	0.000000	0.000000
PSV-2121A	237.387	283,935.601	Molecular Weight	33.725		0.395658	0.604342	0.000000
PSV-2131A	227.654	563,852.146	Molecular Weight	33.725		0.395658	0.604342	0.000000
BDV-2131A	234.801	2,377,289.072	Mole Fractions	31.502		0.638051	0.137328	0.077209
PSV-2122A/2123A	228.434	3,655,435.321	Molecular Weight	33.725		0.395658	0.604342	0.000000
PSV-2141/2142	246.411	2,214,619.766	Mole Fractions	24.562		0.004486	0.031791	0.054427
BDV-2141	234.801	2,377,289.072	Mole Fractions	31.502		0.638051	0.137328	0.077209
PSV-2271	238.696	112,797.850	Molecular Weight	33.725		0.395658	0.604342	0.000000
BDV-2132 A	212.082	0.000	Molecular Weight	18.015		1.000000	0.000000	0.000000
PSV-2132A/2133A	228.434	3,655,435.321	Molecular Weight	33.725		0.395658	0.604342	0.000000
XV-2110	212.082	0.000	Molecular Weight	18.015		1.000000	0.000000	0.000000
BDV-2151	234.801	2,377,289.072	Mole Fractions	31.502		0.638051	0.137328	0.077209
PSV-2121B	237.387	283,935.601	Molecular Weight	33.725		0.395658	0.604342	0.000000
PSV-2131B	227.654	563,852.146	Molecular Weight	33.725		0.395658	0.604342	0.000000
BDV-2131 B	234.801	2,377,289.072	Mole Fractions	31.502		0.638051	0.137328	0.077209
PSV-2122B/2123B	228.434	3,655,435.321	Molecular Weight	33.725		0.395658	0.604342	0.000000
BDV-2132 B	212.082	0.000	Molecular Weight	18.015		1.000000	0.000000	0.000000
PSV-2132B/2133B	228.434	3,655,435.321	Molecular Weight	33.725		0.395658	0.604342	0.000000
PSV-2121C	237.387	283,935.601	Molecular Weight	33.725		0.395658	0.604342	0.000000
PSV-2131C	227.654	563,852.146	Molecular Weight	33.725		0.395658	0.604342	0.000000
BDV-2131 C	234.801	2,377,289.072	Mole Fractions	31.502		0.638051	0.137328	0.077209
PSV-2122C/2123C	228.434	3,655,435.321	Molecular Weight	33.725		0.395658	0.604342	0.000000
BDV-2132 C	212.082	0.000	Molecular Weight	18.015		1.000000	0.000000	0.000000
PSV-2132C/2133C	228.434	3,655,435.321	Molecular Weight	33.725		0.395658	0.604342	0.000000
PCV-2135A	212.082	0.000	Molecular Weight	18.015		1.000000	0.000000	0.000000
PCV-2135B	212.082	0.000	Molecular Weight	18.015		1.000000	0.000000	0.000000
PCV-2135C	212.082	0.000	Molecular Weight	18.015		1.000000	0.000000	0.000000
PSV-2293			Molecular Weight	18.015		1.000000	0.000000	0.000000

User Name : Undefined
 Job Code :
 Project : BINAK
 Description :
 Scenario : PSV-2141/2142 BLOCKED OUTLET

Source Data

Name	Methane	Ethane	Propane	i-Butane	n-Butane	i-Pentane	n-Pentane	n-Hexane
PV-2152	0.008455	0.018786	0.007000	0.003809	0.006623	0.001978	0.000603	0.000300
PSV-2111/2112	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2113/2114	0.395658	0.604342	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2121A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2131A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2131A	0.008383	0.018568	0.006959	0.003769	0.006540	0.001954	0.001954	0.000297
PSV-2122A/2123A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2141/2142	0.642692	0.138327	0.077770	0.008444	0.018703	0.007009	0.003796	0.006588
BDV-2141	0.008383	0.018568	0.006959	0.003769	0.006540	0.001954	0.001954	0.000297
PSV-2271	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2132 A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2132A/2133A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
XV-2110	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2151	0.008383	0.018568	0.006959	0.003769	0.006540	0.001954	0.001954	0.000297
PSV-2121B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2131B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2131 B	0.008383	0.018568	0.006959	0.003769	0.006540	0.001954	0.001954	0.000297
PSV-2122B/2123B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2132 B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2132B/2133B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2121C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2131C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2131 C	0.008383	0.018568	0.006959	0.003769	0.006540	0.001954	0.001954	0.000297
PSV-2122C/2123C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2132 C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2132C/2133C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PCV-2135A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PCV-2135B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PCV-2135C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2293	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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Source Data

Name	n-Heptane	n-Octane	n-Nonane	n-Decane	Nitrogen	TEGlycol	n-C11
PV-2152	0.000100	0.000241	0.054025	0.003017	0.031901	0.000000	0.000000
PSV-2111/2112	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2113/2114	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2121A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2131A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2131A	0.000099	0.010300	0.054046	0.002980	0.031563	0.000000	0.000000
PSV-2122A/2123A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2141/2142	0.001968	0.000599	0.000299	0.000100	0.003001	0.000000	0.000000
BDV-2141	0.000099	0.010300	0.054046	0.002980	0.031563	0.000000	0.000000
PSV-2271	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2132 A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2132A/2133A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
XV-2110	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2151	0.000099	0.010300	0.054046	0.002980	0.031563	0.000000	0.000000
PSV-2121B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2131B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2131 B	0.000099	0.010300	0.054046	0.002980	0.031563	0.000000	0.000000
PSV-2122B/2123B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2132 B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2132B/2133B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2121C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2131C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2131 C	0.000099	0.010300	0.054046	0.002980	0.031563	0.000000	0.000000
PSV-2122C/2123C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BDV-2132 C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2132C/2133C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PCV-2135A	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PCV-2135B	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PCV-2135C	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PSV-2293	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000