

Bis(2-ethylhexyl) phthalate

Other names:

- 1,2-Benzenedicarboxylic acid, 1,2-bis(2-ethylhexyl) ester
- 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
- 2-Ethylhexyl phthalate
- BEHP
- BIS (2-ETHYLHEXYL) PHTHALATE
- Bis(2-ethylhexyl) 1,2-benzenedicarboxylate
- Bis(2-ethylhexyl) o-phthalate
- Bis(2-ethylhexyl)ester phthalic acid
- Bis-(2-ethylhexyl)ester kyseliny ftalove
- Bis-(2-ethylhexyl)ester kyseliny ftalove (Czech)
- Bisoflex 81
- Bisoflex DOP
- Celluflex DOP
- Compound 889
- Corflex 400
- DAF 68
- DEHP
- DIOCTYL PHTHALATE
- DOF
- DOP
- Di(2-ethylhexyl) o-phthalate
- Di(2-ethylhexyl) phthalate
- Di(2-ethylhexyl)-phthalate
- Di(2-ethylhexyl)orthophthalate
- Di(ethylhexyl) phthalate
- Di-sec-octyl phthalate
- Ergoplast FDO
- Ergoplast FDO-S
- Ethylhexyl phthalate
- Eviplast 80
- Eviplast 81
- Fleximel
- Flexol DOP
- Flexol plasticizer DOP
- Good-rite GP 264
- Hatco DOP
- Hatcol dop
- Hercoflex 260
- Jayflex DOP
- Kodaflex DOP

Merrol DOP
Mollan O
Monocizer DOP
NCI-C52733
Nuoplaz DOP
Octoil
Octyl phthalate
PX-138
Palatinol AH
Palatinol AH-L
Palatinol DOP
Phthalic acid di(2-ethylhexyl) ester
Phthalic acid dioctyl ester
Phthalic acid, bis(2-ethylhexyl) ester
Pittsburgh PX-138
Plasthall DOP
Platinol AH
Platinol DOP
Polycizer DOP
RC plasticizer DOP
RCRA Waste number U028
Reomol D 79P
Reomol DOP
Sansocizer DOP
Sicol 150
Staflex DOP
Truflex DOP
Union carbide flexol 380
Vestinol AH
Vinicizer 80
Vinyccizer 80
Witcizer 312
bis(2-ethylhexyl) benzene-1,2-dicarboxylate
etalon
sconamoll DOP

Inchi:

InChI=1S/C24H38O4/c1-5-9-13-19(7-3)17-27-23(25)21-15-11-12-16-22(21)24(26)28-18-

InchiKey:

BJQHLKABXJIVAM-UHFFFAOYSA-N

Formula:

C24H38O4

SMILES:

CCCCC(CC)COC(=O)c1ccccc1C(=O)OCC(CC)CCCC

Mol. weight [g/mol]:

390.56

CAS:

117-81-7

Physical Properties

Property code	Value	Unit	Source
gf	-218.74	kJ/mol	Joback Method
hf	-813.79	kJ/mol	Joback Method
hfus	50.10	kJ/mol	Joback Method
hvap	89.49	kJ/mol	Joback Method
log10ws	-7.06		Aqueous Solubility Prediction Method
log10ws	-6.96		Estimated Solubility Method
logp	6.433		Crippen Method
mcvol	340.140	ml/mol	McGowan Method
pc	1070.00	kPa	Critical Temperatures and Pressures of 12 Phthalates Using the Pulse-Heating Method
rinpol	2505.00		NIST Webbook
rinpol	406.14		NIST Webbook
rinpol	2539.00		NIST Webbook
rinpol	2492.60		NIST Webbook
rinpol	2509.00		NIST Webbook
rinpol	2507.00		NIST Webbook
rinpol	2499.40		NIST Webbook
rinpol	2499.00		NIST Webbook
rinpol	2499.00		NIST Webbook
rinpol	2505.00		NIST Webbook
rinpol	2546.00		NIST Webbook
rinpol	2488.00		NIST Webbook
rinpol	2498.00		NIST Webbook
rinpol	2552.00		NIST Webbook
rinpol	2539.00		NIST Webbook
rinpol	2544.00		NIST Webbook
rinpol	2551.00		NIST Webbook
rinpol	2509.00		NIST Webbook
rinpol	2550.00		NIST Webbook
rinpol	2519.00		NIST Webbook
rinpol	2504.00		NIST Webbook
rinpol	2519.00		NIST Webbook
rinpol	2506.00		NIST Webbook
rinpol	2480.00		NIST Webbook
rinpol	2505.00		NIST Webbook
rinpol	2506.00		NIST Webbook

rinpol	2509.00		NIST Webbook
rinpol	2506.00		NIST Webbook
rinpol	2507.00		NIST Webbook
rinpol	418.60		NIST Webbook
rinpol	418.70		NIST Webbook
rinpol	402.20		NIST Webbook
rinpol	406.14		NIST Webbook
rinpol	406.15		NIST Webbook
rinpol	2488.00		NIST Webbook
rinpol	2505.00		NIST Webbook
rinpol	2507.00		NIST Webbook
rinpol	418.60		NIST Webbook
rinpol	2499.40		NIST Webbook
rinpol	2492.60		NIST Webbook
ripol	3106.00		NIST Webbook
ripol	3106.00		NIST Webbook
ripol	3106.00		NIST Webbook
ripol	3106.00		NIST Webbook
sl	807.70	J/mol×K	NIST Webbook
sl	755.20	J/mol×K	NIST Webbook
tb	657.20	K	NIST Webbook
tc	1142.43	K	Joback Method
tf	219.82	K	Aqueous Solubility Prediction Method
vc	1.308	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1202.19	J/mol×K	1142.43	Joback Method
cpg	1137.32	J/mol×K	966.97	Joback Method
cpg	1152.94	J/mol×K	1002.06	Joback Method
cpg	1167.20	J/mol×K	1037.16	Joback Method
cpg	1180.14	J/mol×K	1072.25	Joback Method
cpg	1191.79	J/mol×K	1107.34	Joback Method
cpg	1120.29	J/mol×K	931.88	Joback Method
cpl	669.40	J/mol×K	300.00	NIST Webbook
cpl	704.70	J/mol×K	298.15	NIST Webbook

dvisc	0.0139100	Paxs	328.12	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0116200	Paxs	333.19	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0099030	Paxs	337.71	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0169600	Paxs	323.02	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0261300	Paxs	313.18	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0331700	Paxs	308.23	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa

dvisc	0.0432700	Paxs	303.33	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0579400	Paxs	298.29	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0082680	Paxs	343.53	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0787300	Paxs	293.38	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.1107000	Paxs	288.53	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0210800	Paxs	317.99	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa

dvisc	0.0061990	Paxs	353.68	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
dvisc	0.0071580	Paxs	348.48	Measurements of the Viscosity of Bis(2-ethylhexyl) Sebacate, Squalane, and Bis(2-ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa
hvapt	116.90	kJ/mol	298.00	A Comparison of Results by Correlation Gas Chromatography with Another Gas Chromatographic Retention Time Technique. The Effects of Retention Time Coincidence on Vaporization Enthalpy and Vapor Pressure
hvapt	110.70	kJ/mol	412.50	NIST Webbook
hvapt	102.50	kJ/mol	516.50	NIST Webbook
pvap	0.04	kPa	448.15	Vapor Pressure and Enthalpy of Vaporization of Fentanyl
pvap	0.02	kPa	433.15	Vapor Pressure and Enthalpy of Vaporization of Fentanyl
pvap	0.07	kPa	453.15	Vapor Pressure and Enthalpy of Vaporization of Fentanyl
pvap	0.12	kPa	463.15	Vapor Pressure and Enthalpy of Vaporization of Fentanyl
pvap	8.00e-03	kPa	423.15	Vapor Pressure and Enthalpy of Vaporization of Fentanyl
pvap	0.19	kPa	473.15	Vapor Pressure and Enthalpy of Vaporization of Fentanyl

pvap	0.03	kPa	443.15	Vapor Pressure and Enthalpy of Vaporization of Fentanyl
rh _{ol}	976.42	kg/m ³	303.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
rh _{ol}	968.98	kg/m ³	313.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
rh _{ol}	983.87	kg/m ³	293.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
rh _{ol}	954.11	kg/m ³	333.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
rh _{ol}	991.26	kg/m ³	283.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate

rhol	946.68	kg/m3	343.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
rhol	939.27	kg/m3	353.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
rhol	931.85	kg/m3	363.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
rhol	995.01	kg/m3	278.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
rhol	980.15	kg/m3	298.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate

rhol	998.82	kg/m3	273.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
rhol	961.53	kg/m3	323.15	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate
sdc0	0.00	m2/s	362.75	Viscous Calibration Liquids for Self-diffusion Measurements
sdc0	0.00	m2/s	362.72	Viscous Calibration Liquids for Self-diffusion Measurements
sdc0	0.00	m2/s	352.88	Viscous Calibration Liquids for Self-diffusion Measurements
sdc0	0.00	m2/s	352.86	Viscous Calibration Liquids for Self-diffusion Measurements
sdc0	0.00	m2/s	343.70	Viscous Calibration Liquids for Self-diffusion Measurements
sdc0	0.00	m2/s	343.65	Viscous Calibration Liquids for Self-diffusion Measurements
sdc0	0.00	m2/s	333.20	Viscous Calibration Liquids for Self-diffusion Measurements

sdco	0.00	m2/s	333.16	Viscous Calibration Liquids for Self-diffusion Measurements
sdco	0.00	m2/s	323.05	Viscous Calibration Liquids for Self-diffusion Measurements
sdco	0.00	m2/s	323.03	Viscous Calibration Liquids for Self-diffusion Measurements
sdco	0.00	m2/s	322.88	Viscous Calibration Liquids for Self-diffusion Measurements
sdco	0.00	m2/s	322.84	Viscous Calibration Liquids for Self-diffusion Measurements
sdco	0.00	m2/s	322.70	Viscous Calibration Liquids for Self-diffusion Measurements
sdco	0.00	m2/s	312.89	Viscous Calibration Liquids for Self-diffusion Measurements
sdco	0.00	m2/s	303.18	Viscous Calibration Liquids for Self-diffusion Measurements

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{\text{vap}}) = A + B/(T + C)$
Coeff. A	1.26088e+01
Coeff. B	-4.47566e+03
Coeff. C	-1.48765e+02
Temperature range (K), min.	512.02
Temperature range (K), max.	762.10

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C*\ln(T) + D*T^2$
Coeff. A	1.60562e+02
Coeff. B	-2.04275e+04
Coeff. C	-1.94419e+01
Coeff. D	2.98773e-06
Temperature range (K), min.	298.00
Temperature range (K), max.	806.00

Datasets

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
373.29	3800.00	921.0
373.29	7600.00	924.0
373.29	12200.00	928.0
373.29	15900.00	931.0
373.29	18100.00	933.0
373.29	22300.00	936.0
373.29	28300.00	940.0
373.29	34800.00	945.0
373.29	42200.00	950.0
373.29	48900.00	954.0
373.29	56100.00	959.0
373.29	69500.00	967.0
373.29	83700.00	974.0
373.29	104200.00	984.0
373.29	125400.00	994.0
373.29	138900.00	1001.0
373.29	152900.00	1007.0
373.29	174400.00	1015.0
373.29	208300.00	1029.0
373.29	240000.00	1041.0
373.29	262100.00	1046.0
423.53	4200.00	878.0

423.53	7900.00	885.0
423.53	11100.00	890.0
423.53	14500.00	895.0
423.53	18000.00	898.0
423.53	21200.00	901.0
423.53	27800.00	908.0
423.53	35200.00	914.0
423.53	42100.00	918.0
423.53	49200.00	924.0
423.53	55700.00	930.0
423.53	70700.00	939.0
423.53	83700.00	948.0
423.53	104200.00	960.0
423.53	125400.00	970.0
423.53	139900.00	977.0
423.53	153700.00	983.0
423.53	173400.00	992.0
423.53	207100.00	1006.0
423.53	239400.00	1018.0
423.53	263800.00	1028.0
476.20	5500.00	847.0
476.20	9500.00	853.0
476.20	9400.00	853.0
476.20	15700.00	861.0
476.20	15200.00	861.0
476.20	15200.00	861.0
476.20	27500.00	874.0
476.20	27300.00	874.0
476.20	26800.00	874.0
476.20	46900.00	894.0
476.20	46700.00	894.0
476.20	59800.00	905.0
476.20	71500.00	913.0
476.20	70700.00	914.0
476.20	96400.00	931.0
476.20	95700.00	931.0
476.20	114800.00	942.0
476.20	114200.00	942.0
476.20	140400.00	958.0
476.20	139800.00	959.0
476.20	176200.00	975.0
476.20	206900.00	990.0
476.20	240200.00	1002.0
476.20	269000.00	1013.0

491.86	3900.00	830.0
491.86	4100.00	830.0
491.86	3900.00	831.0
491.86	10500.00	839.0
491.86	9900.00	840.0
491.86	23300.00	856.0
491.86	23300.00	856.0
491.86	22800.00	856.0
491.86	37500.00	870.0
491.86	37200.00	870.0
491.86	51100.00	885.0
491.86	50700.00	886.0
491.86	71500.00	902.0
491.86	71900.00	902.0
491.86	95000.00	918.0
491.86	94800.00	918.0
491.86	121700.00	934.0
491.86	121800.00	934.0
491.86	145400.00	948.0
491.86	145600.00	948.0
491.86	177200.00	964.0
491.86	177400.00	964.0
491.86	204300.00	977.0
491.86	206000.00	978.0
491.86	230800.00	988.0
491.86	229400.00	989.0
491.86	253700.00	998.0
491.86	258100.00	1000.0
523.60	5700.00	811.0
523.60	9200.00	817.0
523.60	9200.00	817.0
523.60	16100.00	827.0
523.60	16100.00	827.0
523.60	21600.00	835.0
523.60	21600.00	835.0
523.60	27500.00	842.0
523.60	27300.00	842.0
523.60	35700.00	851.0
523.60	35500.00	851.0
523.60	44400.00	860.0
523.60	44600.00	860.0
523.60	44300.00	860.0
523.60	44200.00	860.0
523.60	56300.00	871.0

523.60	55800.00	871.0
523.60	68900.00	882.0
523.60	68500.00	882.0
523.60	82500.00	892.0
523.60	82200.00	893.0
523.60	97300.00	903.0
523.60	97000.00	903.0
523.60	117000.00	916.0
523.60	117700.00	916.0
523.60	117400.00	916.0
523.60	155700.00	939.0
523.60	156100.00	939.0
523.60	181500.00	952.0
523.60	181200.00	952.0
523.60	209500.00	964.0
523.60	209900.00	964.0
523.60	233900.00	974.0
523.60	234000.00	974.0
523.60	253600.00	983.0
523.60	253400.00	983.0
523.60	263500.00	987.0

Reference

<https://www.doi.org/10.1016/j.jct.2013.04.010>

Molar heat capacity at constant pressure, J/K/mol

Temperature, K - Liquid	Pressure, kPa - Liquid	Molar heat capacity at constant pressure, J/K/mol - Liquid
293.15	100.00	703.00
293.15	10000.00	701.50
293.15	20000.00	699.90
293.15	30000.00	699.60
313.15	100.00	726.90
313.15	10000.00	724.90
313.15	20000.00	723.00
313.15	30000.00	722.00
333.15	100.00	751.30
333.15	10000.00	750.00
333.15	20000.00	747.50
333.15	30000.00	746.00
353.15	100.00	774.50
353.15	10000.00	770.50

353.15	20000.00	767.90
353.15	30000.00	763.40
Reference	https://www.doi.org/10.1016/j.jct.2012.01.011	

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C117817&Units=SI
KDB Vapor Pressure Data:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1160
Vapor Pressure and Enthalpy of Vaporization of Fentanyl:	https://doi.org/10.1021/je7005067
KDB:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1160
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Sulfate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate:	https://doi.org/10.1021/je900284z
Gibson Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx
Experimental density measurements of bis(2-ethylhexyl) phthalate at elevated temperatures and pressures:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Correlation Gas Chromatography with Automated Solubility Graphic Retention Time Technique. The Effects of Solubilities at High Dilution of Toluene, Ethylbenzene, 1,4-Dimethylbenzene, Squalane, and 2-Ethylhexyl Pressures of Dissociates, and Dissociation Heating:	https://doi.org/10.1021/acs.jced.5b00444
Measurement of the Viscosity of Bis(2-Ethylhexyl) Sulfate, Squalane, Squalane, and Bis(2-Ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
Measurement of the Viscosity of Bis(2-Ethylhexyl) Sulfate, Squalane, Squalane, and Bis(2-Ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa: Viscous Calibration Liquids for Self-diffusion Measurements:	https://doi.org/10.1021/je050529h
Measurement of the Viscosity of Bis(2-Ethylhexyl) Sulfate, Squalane, Squalane, and Bis(2-Ethylhexyl) Phthalate between (283 and 363) K at 0.1 MPa: Viscous Calibration Liquids for Self-diffusion Measurements:	https://doi.org/10.1021/je060068f
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Legend

cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sdco:	Self diffusion coefficient
sl:	Liquid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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