

Butane, 1-bromo-

Other names:	1-BROMOBUTANE BUTYL BROMIDE UN 1126 n-Butyl bromide n-C4H9Br
Inchi:	InChI=1S/C4H9Br/c1-2-3-4-5/h2-4H2,1H3
InchiKey:	MPPPKRYCTPRNTB-UHFFFAOYSA-N
Formula:	C4H9Br
SMILES:	CCCCBr
Mol. weight [g/mol]:	137.02
CAS:	109-65-9

Physical Properties

Property code	Value	Unit	Source
af	0.3390		KDB
chl	-2716.50 ± 1.30	kJ/mol	NIST Webbook
gf	-2.88	kJ/mol	Joback Method
hf	-107.00 ± 2.00	kJ/mol	NIST Webbook
hfl	-143.80 ± 1.30	kJ/mol	NIST Webbook
hfl	-148.00	kJ/mol	NIST Webbook
hfus	9.12	kJ/mol	Thermodynamics of Ionic Liquid Precursors. 1-Bromobutane and Its Isomers
hvap	36.70 ± 0.10	kJ/mol	NIST Webbook
hvap	36.40	kJ/mol	NIST Webbook
hvap	36.60 ± 0.10	kJ/mol	NIST Webbook
hvap	36.70 ± 0.10	kJ/mol	NIST Webbook
hvap	36.60 ± 0.10	kJ/mol	NIST Webbook
hvap	36.40	kJ/mol	NIST Webbook
hvap	36.71	kJ/mol	NIST Webbook
ie	10.15	eV	NIST Webbook
ie	10.11	eV	NIST Webbook
ie	10.13 ± 0.01	eV	NIST Webbook
ie	10.12	eV	NIST Webbook
ie	10.13 ± 0.01	eV	NIST Webbook
ie	10.13 ± 0.02	eV	NIST Webbook

log10ws	-2.37		Aqueous Solubility Prediction Method
log10ws	-2.37		Estimated Solubility Method
logp	2.181		Crippen Method
mcvol	84.720	ml/mol	McGowan Method
pc	4260.00	kPa	KDB
rinpol	732.00		NIST Webbook
rinpol	708.00		NIST Webbook
rinpol	711.00		NIST Webbook
rinpol	743.00		NIST Webbook
rinpol	704.00		NIST Webbook
rinpol	698.00		NIST Webbook
rinpol	729.00		NIST Webbook
rinpol	729.00		NIST Webbook
rinpol	719.00		NIST Webbook
rinpol	734.00		NIST Webbook
rinpol	719.00		NIST Webbook
rinpol	717.00		NIST Webbook
rinpol	740.50		NIST Webbook
rinpol	727.50		NIST Webbook
rinpol	734.00		NIST Webbook
rinpol	729.00		NIST Webbook
rinpol	711.00		NIST Webbook
rinpol	753.00		NIST Webbook
rinpol	719.00		NIST Webbook
rinpol	738.00		NIST Webbook
rinpol	715.00		NIST Webbook
rinpol	706.00		NIST Webbook
rinpol	704.00		NIST Webbook
rinpol	716.80		NIST Webbook
rinpol	732.00		NIST Webbook
rinpol	730.40		NIST Webbook
rinpol	731.40		NIST Webbook
rinpol	703.50		NIST Webbook
rinpol	705.40		NIST Webbook
rinpol	706.90		NIST Webbook
rinpol	712.20		NIST Webbook
rinpol	703.60		NIST Webbook
rinpol	701.90		NIST Webbook
rinpol	710.00		NIST Webbook
ripol	975.00		NIST Webbook
ripol	948.00		NIST Webbook
ripol	955.00		NIST Webbook
ripol	944.00		NIST Webbook

ripol	948.00		NIST Webbook
ripol	948.00		NIST Webbook
ripol	960.00		NIST Webbook
ripol	955.00		NIST Webbook
sl	327.02	J/molxK	NIST Webbook
tb	374.80	K	KDB
tc	577.50	K	NIST Webbook
tc	569.50	K	KDB
tf	160.75 ± 0.30	K	NIST Webbook
tf	161.00	K	KDB
tf	161.02	K	Aqueous Solubility Prediction Method
tf	385.40	K	NIST Webbook
tf	160.70 ± 1.50	K	NIST Webbook
tf	160.80 ± 0.40	K	NIST Webbook
tf	160.40 ± 0.20	K	NIST Webbook
vc	0.322	m ³ /kmol	KDB
zc	0.2892410		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.39	J/molxK	511.68	Joback Method
cpg	169.62	J/molxK	542.61	Joback Method
cpg	127.53	J/molxK	357.08	Joback Method
cpg	135.38	J/molxK	388.00	Joback Method
cpg	142.88	J/molxK	418.92	Joback Method
cpg	150.04	J/molxK	449.84	Joback Method
cpg	156.87	J/molxK	480.76	Joback Method
cpl	173.26	J/molxK	344.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis

cpl	164.22	J/mol×K	306.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	164.78	J/mol×K	309.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	165.34	J/mol×K	311.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	165.94	J/mol×K	314.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis

cpl	166.49	J/mol×K	316.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	167.09	J/mol×K	319.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	162.20	J/mol×K	298.15	NIST Webbook
cpl	167.67	J/mol×K	321.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	168.29	J/mol×K	324.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis

cpl	168.83	J/mol×K	326.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	169.45	J/mol×K	329.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	170.09	J/mol×K	331.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	170.63	J/mol×K	334.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis

cpl	163.08	J/mol×K	301.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	159.45	J/mol×K	284.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	159.98	J/mol×K	286.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	160.53	J/mol×K	289.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis

cpl	161.01	J/mol×K	291.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	161.52	J/mol×K	294.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	171.00	J/mol×K	336.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	171.94	J/mol×K	339.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis

cpl	172.57	J/mol×K	341.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	152.21	J/mol×K	292.30	NIST Webbook
cpl	151.00	J/mol×K	298.00	NIST Webbook
cpl	163.72	J/mol×K	304.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	175.47	J/mol×K	353.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	175.19	J/mol×K	351.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis

cpl	174.51	J/molxK	349.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	162.08	J/molxK	296.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	173.89	J/molxK	346.65	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
cpl	162.60	J/molxK	299.15	Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range from 284.15 K to 353.15 K. A group additivity and molecular connectivity analysis
dvisc	0.0005750	Paxs	303.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures

dvisc	0.0006770	Paxs	288.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures
dvisc	0.0006070	Paxs	298.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures
dvisc	0.0005500	Paxs	308.15	Densities and Viscosities of Binary and Ternary Mixtures of (Nitrobenzene + 1-Bromobutane), (1-Bromobutane + Methylcyclohexane), (Nitrobenzene + Methylcyclohexane), and (Methylcyclohexane + Nitrobenzene + 1-Bromobutane) from (293.15 to 308.15) K
dvisc	0.0005811	Paxs	303.15	Densities and Viscosities of Binary and Ternary Mixtures of (Nitrobenzene + 1-Bromobutane), (1-Bromobutane + Methylcyclohexane), (Nitrobenzene + Methylcyclohexane), and (Methylcyclohexane + Nitrobenzene + 1-Bromobutane) from (293.15 to 308.15) K

dvisc	0.0006096	Paxs	298.15	Densities and Viscosities of Binary and Ternary Mixtures of (Nitrobenzene + 1-Bromobutane), (1-Bromobutane + Methylcyclohexane), (Nitrobenzene + Methylcyclohexane), and (Methylcyclohexane + Nitrobenzene + 1-Bromobutane) from (293.15 to 308.15) K
dvisc	0.0006473	Paxs	293.15	Densities and Viscosities of Binary and Ternary Mixtures of (Nitrobenzene + 1-Bromobutane), (1-Bromobutane + Methylcyclohexane), (Nitrobenzene + Methylcyclohexane), and (Methylcyclohexane + Nitrobenzene + 1-Bromobutane) from (293.15 to 308.15) K
dvisc	0.0004940	Paxs	318.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures
dvisc	0.0005190	Paxs	313.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures
dvisc	0.0005460	Paxs	308.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures
hfust	9.23	kJ/mol	160.40	NIST Webbook

hfust	9.23	kJ/mol	160.40	NIST Webbook
hfust	9.23	kJ/mol	160.40	NIST Webbook
hvapt	34.50 ± 0.10	kJ/mol	339.00	NIST Webbook
hvapt	32.60	kJ/mol	372.40	NIST Webbook
hvapt	33.00 ± 0.10	kJ/mol	366.00	NIST Webbook
hvapt	33.50	kJ/mol	318.00	NIST Webbook
hvapt	34.90 ± 0.10	kJ/mol	332.00	NIST Webbook
hvapt	35.60 ± 0.10	kJ/mol	322.00	NIST Webbook
hvapt	37.50	kJ/mol	336.50	NIST Webbook
hvapt	34.60	kJ/mol	355.50	NIST Webbook
hvapt	32.51	kJ/mol	374.70	NIST Webbook
hvapt	33.70 ± 0.10	kJ/mol	352.00	NIST Webbook
hvapt	36.77	kJ/mol	374.80	KDB
pvap	8.90	kPa	308.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	1.86	kPa	278.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	2.48	kPa	283.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	3.27	kPa	288.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol

pvap	4.26	kPa	293.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	5.51	kPa	298.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	7.04	kPa	303.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	13.87	kPa	318.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T) 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol
pvap	11.15	kPa	313.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T) 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol
pvap	8.90	kPa	308.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T) 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol

pvap	7.04	kPa	303.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T) 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol
pvap	5.51	kPa	298.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T) 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol
pvap	4.26	kPa	293.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T) 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol
pvap	3.27	kPa	288.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T) 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol
pvap	2.48	kPa	283.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T) 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol
pvap	1.86	kPa	278.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T) 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol

pvap	17.09	kPa	323.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	13.87	kPa	318.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	17.09	kPa	323.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 1-Octanol or 1-Decanol
pvap	11.15	kPa	313.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
rho1	1229.50	kg/m3	323.15	Density of Some 1-Bromoalkanes within the Temperature Range from (243.15 to 423.15) K
rho1	1313.80	kg/m3	263.15	Density of Some 1-Bromoalkanes within the Temperature Range from (243.15 to 423.15) K
rho1	1300.50	kg/m3	273.15	Density of Some 1-Bromoalkanes within the Temperature Range from (243.15 to 423.15) K

rho1	1286.40	kg/m3	283.15	Density of Some 1-Bromoalkanes within the Temperature Range from (243.15 to 423.15) K
rho1	1265.70	kg/m3	298.15	Density of Some 1-Bromoalkanes within the Temperature Range from (243.15 to 423.15) K
rho1	1326.50	kg/m3	253.15	Density of Some 1-Bromoalkanes within the Temperature Range from (243.15 to 423.15) K
sfust	57.57	J/molxK	160.40	NIST Webbook
sfust	57.57	J/molxK	160.40	NIST Webbook
speedsl	735.21	m/s	383.31	Speed of Sound, Densities, and Isentropic Compressibilities of Liquid 1-Bromoalkanes at Temperatures from (243.15 to 423.15) K
speedsl	797.60	m/s	363.23	Speed of Sound, Densities, and Isentropic Compressibilities of Liquid 1-Bromoalkanes at Temperatures from (243.15 to 423.15) K
speedsl	861.16	m/s	343.22	Speed of Sound, Densities, and Isentropic Compressibilities of Liquid 1-Bromoalkanes at Temperatures from (243.15 to 423.15) K
speedsl	925.99	m/s	323.22	Speed of Sound, Densities, and Isentropic Compressibilities of Liquid 1-Bromoalkanes at Temperatures from (243.15 to 423.15) K

speedsl	1090.98	m/s	273.26	Speed of Sound, Densities, and Isentropic Compressibilities of Liquid 1-Bromoalkanes at Temperatures from (243.15 to 423.15) K
speedsl	1195.27	m/s	243.38	Speed of Sound, Densities, and Isentropic Compressibilities of Liquid 1-Bromoalkanes at Temperatures from (243.15 to 423.15) K

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.47590e+01
Coeff. B	-3.37027e+03
Coeff. C	-4.16480e+01
Temperature range (K), min.	274.54
Temperature range (K), max.	398.38

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	1.18191e+02
Coeff. B	-8.35117e+03
Coeff. C	-1.57561e+01
Coeff. D	1.48094e-05
Temperature range (K), min.	160.75
Temperature range (K), max.	577.00

Sources

Phase Behavior, Densities, and Isothermal Compressibility of Carbon Dioxide + 1-Bromobutane, Carbon Dioxide + 1-Chlorobutane, and Carbon Dioxide + 1-Methylimidazole:

<https://www.doi.org/10.1021/je900387e>

Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Penetration and Viscosities of Binary and Ternary Mixtures of (Nitrobenzene + 1-Methylcyclohexane) (1-Bromobutane + 1-Methylcyclohexane), (Nitrobenzene + Methylcyclohexane) Equilibrium between (243.15 to 323.15) K and Excess Penetration at () 298.15 to 308.15) 1-Bromobutane with 1-Octanol or Precipitation, Densities, and Isoentropic Compressibilities of Liquid McGowan Method at Temperatures from (243.15 to 423.15) K:	https://www.doi.org/10.1021/je020110g https://www.doi.org/10.1021/je200350a https://en.wikipedia.org/wiki/Joback_method https://www.doi.org/10.1021/je030168a https://www.cheric.org/files/research/kdb/mol/mol1606.mol https://www.doi.org/10.1021/je900227j http://link.springer.com/article/10.1007/BF02311772 https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx
Aqueous Solubility Prediction Method:	https://www.doi.org/10.1021/je700015t https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1606
Density of Some 1-Bromoalkanes within the Temperature Range from 243.15 to 423.15 K (Pure and Binary Mixtures):	https://www.doi.org/10.1021/je049652j
Heat Capacities of 1-chloroalkanes and 1-bromoalkanes within the temperature range of 243.15 to 423.15 K (Pure and Binary Mixtures):	https://www.doi.org/10.1021/je200814m
Thermodynamic Properties of 1-Bromoalkanes and 1-Chloroalkanes and Its Solubility Pressure Data:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1606
Densities and Viscosities of Binary Mixtures of 1-Bromobutane with 1-Octanol at Several Temperatures:	https://www.doi.org/10.1021/je0501235 http://webbook.nist.gov/cgi/cbook.cgi?ID=C109659&Units=SI

Legend

af:	Acentric Factor
chl:	Standard liquid enthalpy of combustion
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
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rho:	Liquid Density
ripol:	Non-polar retention indices

ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume
zc:	Critical Compressibility

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