Butane, 1,1'-oxybis[4-chloro-

Other names:	Ether, bis(4-chlorobutyl)
	Bis(4-chlorobutyl) ether
	Di(chlorobutyl) ether
	4,4'-Dichlorodibutyl ether
	4-Chlorobutyl ether
	4-Chloro-n-butyl ether
	Bis-(4-chlorbut-1-yl)-ether
	1,1'-Oxydi-4-chlorobutane
	1,1'-Oxybis(4-chlorobutane)
	NSC 26978
Inchi:	InChI=1S/C8H16Cl2O/c9-5-1-3-7-11-8-4-2-6-10/h1-8H2
InchiKey:	PVBMXMKIKMJQRK-UHFFFAOYSA-N
Formula:	C8H16Cl2O
SMILES:	ClCCCCOCCCCCl
Mol. weight [g/mol]:	199.12
CAS:	6334-96-9

Physical Properties

Property code	Value	Unit	Source
gf	-112.38	kJ/mol	Joback Method
hf	-372.15	kJ/mol	Joback Method
hfus	26.06	kJ/mol	Joback Method
hvap	44.58	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	3.041		Crippen Method
mcvol	153.930	ml/mol	McGowan Method
pc	2318.07	kPa	Joback Method
tb	400.00 ± 4.00	K	NIST Webbook
tb	400.00 ± 4.00	K	NIST Webbook
tc	656.55	K	Joback Method
tf	261.99	K	Joback Method
vc	0.600	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.20	J/mol×K	479.72	Joback Method
cpg	328.33	J/mol×K	509.19	Joback Method
cpg	339.99	J/mol×K	538.66	Joback Method
cpg	351.18	J/mol×K	568.14	Joback Method
cpg	361.93	J/mol×K	597.61	Joback Method
cpg	372.23	J/mol×K	627.08	Joback Method
cpg	382.09	J/mol×K	656.55	Joback Method
dvisc	0.0034133	Pa×s	261.99	Joback Method
dvisc	0.0016785	Pa×s	298.28	Joback Method
dvisc	0.0009628	Pa×s	334.57	Joback Method
dvisc	0.0006158	Pa×s	370.86	Joback Method
dvisc	0.0004265	Pa×s	407.14	Joback Method
dvisc	0.0003137	Pa×s	443.43	Joback Method
dvisc	0.0002417	Pa×s	479.72	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C6334969&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

cpg: Ideal gas 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
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume