Ethane, 1,1'-oxybis[2-bromo-

Other names:	Ether, bis(2-bromoethyl) «beta»,«beta»'-Dibromodiethyl ether Bis(2-bromoethyl) ether 2,2'-Dibromodiethyl ether Ethane, 1,1'-oxybis*2-bromo- 1-Bromo-2-(2-bromoethoxy)ethane
Inchi:	InChI=1S/C4H8Br2O/c5-1-3-7-4-2-6/h1-4H2
InchiKey:	FOZVXADQAHVUSV-UHFFFAOYSA-N
Formula:	C4H8Br2O
SMILES:	BrCCOCCBr
Mol. weight [g/mol]:	231.91
CAS:	5414-19-7

Physical Properties

Property code	Value	Unit	Source
gf	-93.56	kJ/mol	Joback Method
hf	-205.45	kJ/mol	Joback Method
hfus	17.87	kJ/mol	Joback Method
hvap	39.78	kJ/mol	Joback Method
log10ws	-1.45		Crippen Method
logp	1.793		Crippen Method
mcvol	108.090	ml/mol	McGowan Method
pc	4559.21	kPa	Joback Method
tb	445.66	K	Joback Method
tc	650.91	K	Joback Method
tf	276.67	K	Joback Method
vc	0.402	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.66	J/mol×K	445.66	Joback Method
cpg	185.19	J/mol×K	479.87	Joback Method
cpg	192.37	J/mol×K	514.08	Joback Method

cpg	199.19	J/mol×K	548.28	Joback Method
cpg	205.68	J/mol×K	582.49	Joback Method
cpg	211.84	J/mol×K	616.70	Joback Method
cpg	217.70	J/mol×K	650.91	Joback Method
dvisc	0.0024047	Pa×s	276.67	Joback Method
dvisc	0.0015174	Pa×s	304.84	Joback Method
dvisc	0.0010351	Pa×s	333.00	Joback Method
dvisc	0.0007494	Pa×s	361.16	Joback Method
dvisc	0.0005686	Pa×s	389.33	Joback Method
dvisc	0.0004478	Pa×s	417.50	Joback Method
dvisc	0.0003634	Pa×s	445.66	Joback Method
hvapt	55.10	kJ/mol	403.00	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C5414197&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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
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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume