Ethane, 1,2-dibromo-1-ethoxy-

Other names: 1,2-dibromo-1-ethoxyethane
Inchi: InChI=1S/C4H8Br2O/c1-2-7-4(6)3-5/h4H,2-3H2,1H3
InchiKey: YNQUMIFEHUKSMO-UHFFFAOYSA-N
Formula: C4H8Br2O
SMILES: CCOC(Br)CBr
Mol. weight [g/mol]: 231.91
CAS: 2983-26-8

Physical Properties

Property code	Value	Unit	Source
gf	-96.00	kJ/mol	Joback Method
hf	-210.73	kJ/mol	Joback Method
hfus	14.35	kJ/mol	Joback Method
hvap	39.39	kJ/mol	Joback Method
log10ws	-2.05		Crippen Method
logp	2.139		Crippen Method
mcvol	108.090	ml/mol	McGowan Method
pc	4608.87	kPa	Joback Method
rinpol	990.00		NIST Webbook
tb	445.22	K	Joback Method
tc	655.40	K	Joback Method
tf	261.67	K	Joback Method
vc	0.396	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.84	J/mol×K	445.22	Joback Method
cpg	213.13	J/mol×K	620.37	Joback Method
cpg	206.79	J/mol×K	585.34	Joback Method
cpg	200.11	J/mol×K	550.31	Joback Method
cpg	193.06	J/mol×K	515.28	Joback Method
cpg	185.64	J/mol×K	480.25	Joback Method
cpg	219.12	J/mol×K	655.40	Joback Method

dvisc	0.0003471	Pa×s	445.22	Joback Method
dvisc	0.0004389	Pa×s	414.63	Joback Method
dvisc	0.0005762	Pa×s	384.04	Joback Method
dvisc	0.0007929	Pa×s	353.45	Joback Method
dvisc	0.0011592	Pa×s	322.85	Joback Method
dvisc	0.0018349	Pa×s	292.26	Joback Method
dvisc	0.0032337	Pa×s	261.67	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2983268&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume