1-Bromo-1,1-dichloro ethane

Inchi: InChI=1S/C2H3BrCl2/c1-2(3,4)5/h1H3
InchiKey: PJANZHKYXUFKRT-UHFFFAOYSA-N
Formula: C2H3BrCl2
SMILES: CC(Cl)(Cl)Br
Mol. weight [g/mol]: 177.85
CAS: 676-92-6

Physical Properties

Property code	Value	Unit	Source
gf	-40.74	kJ/mol	Joback Method
hf	-98.51	kJ/mol	Joback Method
hfus	7.20	kJ/mol	Joback Method
hvap	33.95	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	2.533		Crippen Method
mcvol	81.020	ml/mol	McGowan Method
pc	5131.32	kPa	Joback Method
tb	382.95	K	Joback Method
tc	603.89	K	Joback Method
tf	234.36	K	Joback Method
vc	0.296	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	106.36	J/mol×K	382.95	Joback Method
cpg	111.56	J/mol×K	419.77	Joback Method
cpg	116.23	J/mol×K	456.60	Joback Method
cpg	120.41	J/mol×K	493.42	Joback Method
cpg	124.13	J/mol×K	530.25	Joback Method
cpg	127.44	J/mol×K	567.07	Joback Method
cpg	130.38	J/mol×K	603.89	Joback Method
dvisc	0.0051574	Pa×s	234.36	Joback Method
dvisc	0.0029538	Pa×s	259.12	Joback Method

dvisc	0.0018645	Pa×s	283.89	Joback Method
dvisc	0.0012671	Pa×s	308.65	Joback Method
dvisc	0.0009119	Pa×s	333.42	Joback Method
dvisc	0.0006869	Pa×s	358.19	Joback Method
dvisc	0.0005367	Pa×s	382.95	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C676926&Units=SI

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