1,1-Dibromo-1-chloro ethane

Inchi: InChI=1S/C2H3Br2Cl/c1-2(3,4)5/h1H3
InchiKey: GEFSLKMOZACLPI-UHFFFAOYSA-N
Formula: C2H3Br2Cl
SMILES: CC(Cl)(Br)Br
Mol. weight [g/mol]: 222.31
CAS: 594-17-2

Physical Properties

Property code	Value	Unit	Source
gf	-14.49	kJ/mol	Joback Method
hf	-56.44	kJ/mol	Joback Method
hfus	8.29	kJ/mol	Joback Method
hvap	36.00	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.689		Crippen Method
mcvol	86.280	ml/mol	McGowan Method
pc	6009.25	kPa	Joback Method
tb	411.68	K	Joback Method
tc	646.77	K	Joback Method
tf	264.24	K	Joback Method
vc	0.309	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	111.80	J/mol×K	411.68	Joback Method
cpg	116.93	J/mol×K	450.86	Joback Method
cpg	121.44	J/mol×K	490.04	Joback Method
cpg	125.39	J/mol×K	529.22	Joback Method
cpg	128.83	J/mol×K	568.40	Joback Method
cpg	131.84	J/mol×K	607.58	Joback Method
cpg	134.46	J/mol×K	646.77	Joback Method
dvisc	0.0040938	Pa×s	264.24	Joback Method
dvisc	0.0025418	Pa×s	288.81	Joback Method

dvisc	0.0017006	Pa×s	313.39	Joback Method
dvisc	0.0012063	Pa×s	337.96	Joback Method
dvisc	0.0008965	Pa×s	362.53	Joback Method
dvisc	0.0006918	Pa×s	387.11	Joback Method
dvisc	0.0005506	Pa×s	411.68	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C594172&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
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