

Ethane, 1,2-dibromo-1-chloro-

Other names:	1,2-Dibromo-1-chloroethane
Inchi:	InChI=1S/C2H3Br2Cl/c3-1-2(4)5/h2H,1H2
InchiKey:	DVTKTUMRXCKEEG-UHFFFAOYSA-N
Formula:	C2H3Br2Cl
SMILES:	ClC(Br)CBr
Mol. weight [g/mol]:	222.31
CAS:	598-20-9

Physical Properties

Property code	Value	Unit	Source
gf	-19.77	kJ/mol	Joback Method
hf	-52.97	kJ/mol	Joback Method
hfus	12.18	kJ/mol	Joback Method
hvap	36.91	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	2.341		Crippen Method
mcvol	86.280	ml/mol	McGowan Method
pc	5908.07	kPa	Joback Method
tb	414.47	K	Joback Method
tc	639.00	K	Joback Method
tf	246.82	K	Joback Method
vc	0.315	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	109.09	J/mol×K	414.47	Joback Method
cpg	113.40	J/mol×K	451.89	Joback Method
cpg	117.36	J/mol×K	489.31	Joback Method
cpg	120.97	J/mol×K	526.73	Joback Method
cpg	124.28	J/mol×K	564.16	Joback Method
cpg	127.31	J/mol×K	601.58	Joback Method
cpg	130.08	J/mol×K	639.00	Joback Method
dvisc	0.0039888	Pa×s	246.82	Joback Method

dvisc	0.0023564	Pa×s	274.76	Joback Method
dvisc	0.0015342	Pa×s	302.70	Joback Method
dvisc	0.0010740	Pa×s	330.64	Joback Method
dvisc	0.0007948	Pa×s	358.59	Joback Method
dvisc	0.0006143	Pa×s	386.53	Joback Method
dvisc	0.0004916	Pa×s	414.47	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=C598209&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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