(E)-1-bromo-2-chloroethene

Inchi: InChI=1S/C2H2BrCl/c3-1-2-4/h1-2H/b2-1+
InchiKey: LYFQYPSHMWBHFG-OWOJBTEDSA-N
Formula: C2H2BrCl
SMILES: ClC=CBr
Mol. weight [g/mol]: 141.39

Physical Properties

Property code	Value	Unit	Source
gf	48.57	kJ/mol	Joback Method
hf	43.20	kJ/mol	Joback Method
hfus	10.62	kJ/mol	Joback Method
hvap	30.82	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	2.091		Crippen Method
mcvol	64.480	ml/mol	McGowan Method
pc	5687.39	kPa	Joback Method
tb	352.91	K	Joback Method
tc	560.71	K	Joback Method
tf	196.94	K	Joback Method
vc	0.238	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	71.38	J/mol×K	352.91	Joback Method
cpg	75.13	J/mol×K	387.54	Joback Method
cpg	78.54	J/mol×K	422.18	Joback Method
cpg	81.64	J/mol×K	456.81	Joback Method
cpg	84.45	J/mol×K	491.44	Joback Method
cpg	87.01	J/mol×K	526.07	Joback Method
cpg	89.32	J/mol×K	560.71	Joback Method
dvisc	0.0028552	Pa×s	196.94	Joback Method
dvisc	0.0016452	Pa×s	222.94	Joback Method
dvisc	0.0010637	Pa×s	248.93	Joback Method

dvisc	0.0007468	Pa×s	274.92	Joback Method
dvisc	0.0005574	Pa×s	300.92	Joback Method
dvisc	0.0004358	Pa×s	326.91	Joback Method
dvisc	0.0003533	Pa×s	352.91	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=B6001190&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume