(2E)-1-bromo-4-chloro-2-butene

Inchi: InChI=1S/C4H6BrCl/c5-3-1-2-4-6/h1-2H,3-4H2/b2-1+
InchiKey: KGRDKGJNOYVKPM-OWOJBTEDSA-N
Formula: C4H6BrCl
SMILES: ClCC=CCBr
Mol. weight [g/mol]: 169.45

Physical Properties

Property code	Value	Unit	Source
gf	65.41	kJ/mol	Joback Method
hf	1.92	kJ/mol	Joback Method
hfus	15.80	kJ/mol	Joback Method
hvap	35.28	kJ/mol	Joback Method
log10ws	-1.94		Crippen Method
logp	2.176		Crippen Method
mcvol	92.660	ml/mol	McGowan Method
pc	4339.67	kPa	Joback Method
tb	398.67	K	Joback Method
tc	603.40	K	Joback Method
tf	219.48	K	Joback Method
vc	0.350	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	134.40	J/mol×K	398.67	Joback Method
cpg	165.34	J/mol×K	569.28	Joback Method
cpg	159.99	J/mol×K	535.16	Joback Method
cpg	154.25	J/mol×K	501.04	Joback Method
cpg	148.09	J/mol×K	466.91	Joback Method
cpg	141.48	J/mol×K	432.79	Joback Method
cpg	170.34	J/mol×K	603.40	Joback Method
dvisc	0.0003370	Pa×s	398.67	Joback Method
dvisc	0.0004230	Pa×s	368.81	Joback Method
dvisc	0.0005527	Pa×s	338.94	Joback Method

dvisc	0.0007604	Pa×s	309.08	Joback Method
dvisc	0.0011202	Pa×s	279.21	Joback Method
dvisc	0.0018108	Pa×s	249.35	Joback Method
dvisc	0.0033355	Pa×s	219.48	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=B6001195&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