2-Bromo-1-chloro-2-methylpropane

Other names: Propane, 2-bromo-1-chloro-2-methyl-
Inchi: InChI=1S/C4H8BrCl/c1-4(2,5)3-6/h3H2,1-2H3
InchiKey: YEZMNTBSGDUYBT-UHFFFAOYSA-N
Formula: C4H8BrCl
SMILES: CC(C)(Br)CCl
Mol. weight [g/mol]: 171.46
CAS: 2074-80-8

Physical Properties

Property code	Value	Unit	Source
gf	-11.97	kJ/mol	Joback Method
hf	-124.05	kJ/mol	Joback Method
hfus	8.18	kJ/mol	Joback Method
hvap	34.02	kJ/mol	Joback Method
log10ws	-2.19		Crippen Method
logp	2.399		Crippen Method
mcvol	96.960	ml/mol	McGowan Method
pc	4156.97	kPa	Joback Method
tb	391.28	K	Joback Method
tc	599.33	K	Joback Method
tf	226.98	K	Joback Method
vc	0.359	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.92	J/mol×K	391.28	Joback Method
cpg	160.82	J/mol×K	425.96	Joback Method
cpg	169.09	J/mol×K	460.63	Joback Method
cpg	176.76	J/mol×K	495.31	Joback Method
cpg	183.87	J/mol×K	529.98	Joback Method
cpg	190.46	J/mol×K	564.66	Joback Method
cpg	196.57	J/mol×K	599.33	Joback Method
dvisc	0.0058378	Pa×s	226.98	Joback Method

dvisc	0.0030285	Pa×s	254.36	Joback Method
dvisc	0.0017849	Pa×s	281.75	Joback Method
dvisc	0.0011552	Pa×s	309.13	Joback Method
dvisc	0.0008026	Pa×s	336.51	Joback Method
dvisc	0.0005890	Pa×s	363.90	Joback Method
dvisc	0.0004514	Pa×s	391.28	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=C2074808&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