2-bromo-2-chloropropane

Inchi: InChI=1S/C3H6BrCl/c1-3(2,4)5/h1-2H3
InchiKey: YSQXISYCKHFJFJ-UHFFFAOYSA-N
Formula: C3H6BrCl
SMILES: CC(C)(Cl)Br
Mol. weight [g/mol]: 157.44
CAS: 2310-98-7

Physical Properties

Property code	Value	Unit	Source
gf	-20.39	kJ/mol	Joback Method
hf	-103.41	kJ/mol	Joback Method
hfus	5.59	kJ/mol	Joback Method
hvap	31.80	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	2.356		Crippen Method
mcvol	82.870	ml/mol	McGowan Method
pc	4723.61	kPa	Joback Method
tb	364.10 ± 0.50	K	NIST Webbook
tc	578.15	K	Joback Method
tf	215.71	K	Joback Method
vc	0.303	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	118.38	J/mol×K	368.40	Joback Method
cpg	125.76	J/mol×K	403.36	Joback Method
cpg	132.56	J/mol×K	438.32	Joback Method
cpg	138.83	J/mol×K	473.28	Joback Method
cpg	144.59	J/mol×K	508.24	Joback Method
cpg	149.89	J/mol×K	543.20	Joback Method
cpg	154.76	J/mol×K	578.15	Joback Method
dvisc	0.0058124	Pa×s	215.71	Joback Method
dvisc	0.0030930	Pa×s	241.16	Joback Method

dvisc	0.0018566	Pa×s	266.61	Joback Method
dvisc	0.0012181	Pa×s	292.06	Joback Method
dvisc	0.0008550	Pa×s	317.50	Joback Method
dvisc	0.0006325	Pa×s	342.95	Joback Method
dvisc	0.0004878	Pa×s	368.40	Joback Method

Sources

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=C2310987&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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