2-Bromo-1-chloro pentane

Inchi: InChI=1S/C5H10BrCl/c1-2-3-5(6)4-7/h5H,2-4H2,1H3
InchiKey: XUGUMNKCVFQCNK-UHFFFAOYSA-N
Formula: C5H10BrCl
SMILES: CCCC(Br)CCl
Mol. weight [g/mol]: 185.49
CAS: 108200-26-6

Physical Properties

Property code	Value	Unit	Source
gf	-8.83	kJ/mol	Joback Method
hf	-141.22	kJ/mol	Joback Method
hfus	14.66	kJ/mol	Joback Method
hvap	37.16	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.789		Crippen Method
mcvol	111.050	ml/mol	McGowan Method
pc	3637.73	kPa	Joback Method
tb	416.95	K	Joback Method
tc	614.25	K	Joback Method
tf	220.83	K	Joback Method
vc	0.420	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	185.53	J/mol×K	416.95	Joback Method
cpg	227.57	J/mol×K	581.37	Joback Method
cpg	220.04	J/mol×K	548.48	Joback Method
cpg	212.09	J/mol×K	515.60	Joback Method
cpg	203.70	J/mol×K	482.72	Joback Method
cpg	194.86	J/mol×K	449.83	Joback Method
cpg	234.70	J/mol×K	614.25	Joback Method
dvisc	0.0003701	Pa×s	416.95	Joback Method
dvisc	0.0004801	Pa×s	384.26	Joback Method

dvisc	0.0006536	Pa×s	351.58	Joback Method
dvisc	0.0009479	Pa×s	318.89	Joback Method
dvisc	0.0014966	Pa×s	286.20	Joback Method
dvisc	0.0026582	Pa×s	253.52	Joback Method
dvisc	0.0055966	Pa×s	220.83	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C108200266&Units=SI
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

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