4-Bromo-3-chlorotoluene

Inchi: InChI=1S/C7H6BrCl/c1-5-2-3-6(8)7(9)4-5/h2-4H,1H3
InchiKey: SDTULEXOSNNGAW-UHFFFAOYSA-N
Formula: C7H6BrCl
SMILES: Cc1ccc(Br)c(Cl)c1
Mol. weight [g/mol]: 205.48
CAS: 6627-51-6

Physical Properties

Property code	Value	Unit	Source
gf	103.60	kJ/mol	Joback Method
hf	36.37	kJ/mol	Joback Method
hfus	16.63	kJ/mol	Joback Method
hvap	45.60	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	3.411		Crippen Method
mcvol	115.470	ml/mol	McGowan Method
pc	4124.99	kPa	Joback Method
tb	499.79	K	Joback Method
tc	740.87	K	Joback Method
tf	309.83	K	Joback Method
vc	0.430	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	195.09	J/mol×K	499.79	Joback Method
cpg	204.33	J/mol×K	539.97	Joback Method
cpg	212.93	J/mol×K	580.15	Joback Method
cpg	220.93	J/mol×K	620.33	Joback Method
cpg	228.35	J/mol×K	660.51	Joback Method
cpg	235.24	J/mol×K	700.69	Joback Method
cpg	241.62	J/mol×K	740.87	Joback Method
dvisc	0.0015976	Pa×s	309.83	Joback Method
dvisc	0.0010646	Pa×s	341.49	Joback Method

dvisc	0.0007600	Pa×s	373.15	Joback Method
dvisc	0.0005719	Pa×s	404.81	Joback Method
dvisc	0.0004485	Pa×s	436.47	Joback Method
dvisc	0.0003635	Pa×s	468.13	Joback Method
dvisc	0.0003025	Pa×s	499.79	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=C6627516&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