1-Bromo-2,4,6-trichlorobenzene

Inchi: InChI=1S/C6H2BrCl3/c7-6-4(9)1-3(8)2-5(6)10/h1-2H
InchiKey: BAPPAFMEUDJAQI-UHFFFAOYSA-N
Formula: C6H2BrCl3
SMILES: Clc1cc(Cl)c(Br)c(Cl)c1
Mol. weight [g/mol]: 260.34
CAS: 19393-96-5

Physical Properties

Property code	Value	Unit	Source
gf	61.69	kJ/mol	Joback Method
hf	14.06	kJ/mol	Joback Method
hfus	22.05	kJ/mol	Joback Method
hvap	52.80	kJ/mol	Joback Method
log10ws	-4.69		Crippen Method
logp	4.409		Crippen Method
mcvol	125.860	ml/mol	McGowan Method
pc	4162.33	kPa	Joback Method
tb	556.75	K	Joback Method
tc	813.68	K	Joback Method
tf	370.92	K	Joback Method
vc	0.472	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	192.28	J/mol×K	556.75	Joback Method
cpg	198.31	J/mol×K	599.57	Joback Method
cpg	203.83	J/mol×K	642.39	Joback Method
cpg	208.89	J/mol×K	685.21	Joback Method
cpg	213.52	J/mol×K	728.04	Joback Method
cpg	217.75	J/mol×K	770.86	Joback Method
cpg	221.63	J/mol×K	813.68	Joback Method
dvisc	0.0012470	Pa×s	370.92	Joback Method
dvisc	0.0009030	Pa×s	401.89	Joback Method

dvisc	0.0006848	Pa×s	432.86	Joback Method
dvisc	0.0005388	Pa×s	463.84	Joback Method
dvisc	0.0004369	Pa×s	494.81	Joback Method
dvisc	0.0003631	Pa×s	525.78	Joback Method
dvisc	0.0003081	Pa×s	556.75	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19393965&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