2,3,5,6-Tetrachloroiodobenzene

Inchi: InChI=1S/C6HCl4I/c7-2-1-3(8)5(10)6(11)4(2)9/h1H
InchiKey: OUOGYOBZKZJEQN-UHFFFAOYSA-N
Formula: C6HCl4I
SMILES: Clc1cc(Cl)c(Cl)c(I)c1Cl
Mol. weight [g/mol]: 341.79
CAS: 32770-82-4

Physical Properties

Property code	Value	Unit	Source
gf	83.93	kJ/mol	Joback Method
hf	37.39	kJ/mol	Joback Method
hfus	24.98	kJ/mol	Joback Method
hvap	60.79	kJ/mol	Joback Method
log10ws	-5.36		Crippen Method
logp	4.905		Crippen Method
mcvol	146.420	ml/mol	McGowan Method
pc	3488.88	kPa	Joback Method
tb	626.14	K	Joback Method
tc	905.49	K	Joback Method
tf	411.62	K	Joback Method
vc	0.547	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	211.87	J/mol×K	626.14	Joback Method
cpg	232.11	J/mol×K	858.93	Joback Method
cpg	228.81	J/mol×K	812.38	Joback Method
cpg	225.17	J/mol×K	765.82	Joback Method
cpg	221.16	J/mol×K	719.26	Joback Method
cpg	216.74	J/mol×K	672.70	Joback Method
cpg	235.11	J/mol×K	905.49	Joback Method
dvisc	0.0002736	Pa×s	626.14	Joback Method
dvisc	0.0003239	Pa×s	590.39	Joback Method

dvisc	0.0003919	Pa×s	554.63	Joback Method
dvisc	0.0004867	Pa×s	518.88	Joback Method
dvisc	0.0006242	Pa×s	483.13	Joback Method
dvisc	0.0008330	Pa×s	447.37	Joback Method
dvisc	0.0011689	Pa×s	411.62	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=C32770824&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