3,4-Dichloro-1,2-diiodobenzene

Inchi: InChI=1S/C6H2Cl2I2/c7-3-1-2-4(9)6(10)5(3)8/h1-2H
InchiKey: WZRLOFPIVPRCJI-UHFFFAOYSA-N
Formula: C6H2Cl2I2
SMILES: Clc1ccc(I)c(I)c1Cl
Mol. weight [g/mol]: 398.80
CAS: 73513-57-2

Physical Properties

Property code	Value	Unit	Source
gf	175.54	kJ/mol	Joback Method
hf	157.21	kJ/mol	Joback Method
hfus	21.38	kJ/mol	Joback Method
hvap	60.73	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	4.203		Crippen Method
mcvol	147.760	ml/mol	McGowan Method
pc	3782.33	kPa	Joback Method
tb	639.44	K	Joback Method
tc	944.93	K	Joback Method
tf	397.32	K	Joback Method
vc	0.537	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	207.43	J/mol×K	639.44	Joback Method
cpg	212.78	J/mol×K	690.36	Joback Method
cpg	217.56	J/mol×K	741.27	Joback Method
cpg	221.86	J/mol×K	792.19	Joback Method
cpg	225.74	J/mol×K	843.10	Joback Method
cpg	229.32	J/mol×K	894.02	Joback Method
cpg	232.66	J/mol×K	944.93	Joback Method
dvisc	0.0015129	Pa×s	397.32	Joback Method
dvisc	0.0009943	Pa×s	437.67	Joback Method

dvisc	0.0007015	Pa×s	478.03	Joback Method
dvisc	0.0005226	Pa×s	518.38	Joback Method
dvisc	0.0004062	Pa×s	558.73	Joback Method
dvisc	0.0003266	Pa×s	599.09	Joback Method
dvisc	0.0002700	Pa×s	639.44	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=C73513572&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