

Hexamethylene chloriodide

Other names:	1-Chloro-6-iodohexane Hexane, 1-chloro-6-iodo-
Inchi:	InChI=1S/C6H12ClI/c7-5-3-1-2-4-6-8/h1-6H2
InchiKey:	QTJHNCILMMRIQ-UHFFFAOYSA-N
Formula:	C6H12ClI
SMILES:	C1CCCCCI
Mol. weight [g/mol]:	246.52
CAS:	34683-73-3

Physical Properties

Property code	Value	Unit	Source
gf	45.83	kJ/mol	Joback Method
hf	-106.04	kJ/mol	Joback Method
hfus	19.90	kJ/mol	Joback Method
hvap	42.71	kJ/mol	Joback Method
log10ws	-3.44		Crippen Method
logp	3.221		Crippen Method
mvol	133.460	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
tb	467.25	K	Joback Method
tc	674.20	K	Joback Method
tf	245.36	K	Joback Method
vc	0.508	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	234.36	J/molxK	467.25	Joback Method
cpg	244.87	J/molxK	501.74	Joback Method
cpg	254.80	J/molxK	536.23	Joback Method
cpg	264.20	J/molxK	570.73	Joback Method
cpg	273.07	J/molxK	605.22	Joback Method
cpg	281.45	J/molxK	639.71	Joback Method
cpg	289.37	J/molxK	674.20	Joback Method

dvisc	0.0054511	Paxs	245.36	Joback Method
dvisc	0.0025788	Paxs	282.34	Joback Method
dvisc	0.0014509	Paxs	319.32	Joback Method
dvisc	0.0009198	Paxs	356.31	Joback Method
dvisc	0.0006353	Paxs	393.29	Joback Method
dvisc	0.0004676	Paxs	430.27	Joback Method
dvisc	0.0003613	Paxs	467.25	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=C34683733&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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