Tetramethylene chloroiodide

Other names:	1-Chloro-4-iodobutane
	Butane, 1-chloro-4-iodo-
Inchi:	InChI=1S/C4H8ClI/c5-3-1-2-4-6/h1-4H2
InchiKey:	JXOSPTBRSOYXGC-UHFFFAOYSA-N
Formula:	C4H8ClI
SMILES:	ClCCCCI
Mol. weight [g/mol]:	218.46
CAS:	10297-05-9

Physical Properties

Property code	Value	Unit	Source
gf	28.99	kJ/mol	Joback Method
hf	-64.76	kJ/mol	Joback Method
hfus	14.72	kJ/mol	Joback Method
hvap	38.26	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	2.440		Crippen Method
mcvol	105.280	ml/mol	McGowan Method
pc	3624.61	kPa	Joback Method
tb	421.49	K	Joback Method
tc	633.80	K	Joback Method
tf	222.82	K	Joback Method
vc	0.397	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	158.78	J/mol×K	421.49	Joback Method
cpg	193.34	J/mol×K	598.42	Joback Method
cpg	187.23	J/mol×K	563.03	Joback Method
cpg	180.74	J/mol×K	527.65	Joback Method
cpg	173.85	J/mol×K	492.26	Joback Method
cpg	166.54	J/mol×K	456.88	Joback Method
cpg	199.09	J/mol×K	633.80	Joback Method

dvisc	0.0004224	Pa×s	421.49	Joback Method
dvisc	0.0005400	Pa×s	388.38	Joback Method
dvisc	0.0007225	Pa×s	355.27	Joback Method
dvisc	0.0010265	Pa×s	322.15	Joback Method
dvisc	0.0015806	Pa×s	289.04	Joback Method
dvisc	0.0027214	Pa×s	255.93	Joback Method
dvisc	0.0055064	Pa×s	222.82	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10297059&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