Cyclohexene, 1-iodo-

Other names:	1-Iodocyclohexene
	1-Iodo-1-cyclohexene
	1-Iodocyclohex-1-ene
Inchi:	InChI=1S/C6H9I/c7-6-4-2-1-3-5-6/h4H,1-3,5H2
InchiKey:	CAROGICRCNKEOD-UHFFFAOYSA-N
Formula:	C6H9I
SMILES:	IC1=CCCCC1
Mol. weight [g/mol]:	208.04
CAS:	17497-53-9

Physical Properties

Property code	Value	Unit	Source
gf	110.25	kJ/mol	Joback Method
hf	30.67	kJ/mol	Joback Method
hfus	7.30	kJ/mol	Joback Method
hvap	40.02	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	2.879		Crippen Method
mcvol	106.060	ml/mol	McGowan Method
pc	4124.99	kPa	Joback Method
rinpol	1079.00		NIST Webbook
rinpol	1079.00		NIST Webbook
rinpol	1079.00		NIST Webbook
ripol	1484.00		NIST Webbook
ripol	1484.00		NIST Webbook
ripol	1484.00		NIST Webbook
ripol	1484.00		NIST Webbook
tb	458.18	K	Joback Method
tc	709.18	K	Joback Method
tf	240.34	K	Joback Method
vc	0.380	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	174.37	J/mol×K	458.18	Joback Method
cpg	187.10	J/mol×K	500.01	Joback Method
cpg	198.91	J/mol×K	541.85	Joback Method
cpg	209.85	J/mol×K	583.68	Joback Method
cpg	219.95	J/mol×K	625.51	Joback Method
cpg	229.29	J/mol×K	667.34	Joback Method
cpg	237.91	J/mol×K	709.18	Joback Method
dvisc	0.0066498	Pa×s	240.34	Joback Method
dvisc	0.0030031	Pa×s	276.65	Joback Method
dvisc	0.0016310	Pa×s	312.95	Joback Method
dvisc	0.0010056	Pa×s	349.26	Joback Method
dvisc	0.0006792	Pa×s	385.57	Joback Method
dvisc	0.0004908	Pa×s	421.87	Joback Method
dvisc	0.0003734	Pa×s	458.18	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C17497539&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
rinpol: Non-polar retention indices
ripol: Polar retention indices

tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume