

Cyclohexene, 4-iodo

Inchi:	InChI=1S/C6H9I/c7-6-4-2-1-3-5-6/h1-2,6H,3-5H2
InchiKey:	AOIRWGGRZCRXCV-UHFFFAOYSA-N
Formula:	C6H9I
SMILES:	IC1CC=CCC1
Mol. weight [g/mol]:	208.04

Physical Properties

Property code	Value	Unit	Source
gf	112.17	kJ/mol	Joback Method
hf	21.80	kJ/mol	Joback Method
hfus	8.76	kJ/mol	Joback Method
hvap	39.04	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	2.530		Crippen Method
mvol	106.060	ml/mol	McGowan Method
pc	4031.24	kPa	Joback Method
rinpol	1075.00		NIST Webbook
rinpol	1075.00		NIST Webbook
tb	448.53	K	Joback Method
tc	697.74	K	Joback Method
tf	223.58	K	Joback Method
vc	0.379	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	175.10	J/molxK	448.53	Joback Method
cpg	234.23	J/molxK	656.20	Joback Method
cpg	224.17	J/molxK	614.67	Joback Method
cpg	213.28	J/molxK	573.13	Joback Method
cpg	201.50	J/molxK	531.60	Joback Method
cpg	188.79	J/molxK	490.06	Joback Method
cpg	243.50	J/molxK	697.74	Joback Method
dvisc	0.0003986	Paxs	448.53	Joback Method

dvisc	0.0005149	Paxs	411.04	Joback Method
dvisc	0.0007003	Paxs	373.55	Joback Method
dvisc	0.0010201	Paxs	336.05	Joback Method
dvisc	0.0016331	Paxs	298.56	Joback Method
dvisc	0.0029927	Paxs	261.07	Joback Method
dvisc	0.0067198	Paxs	223.58	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R25473&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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