Cyclohexene, 6-iodo-1-methyl

Inchi: InChI=1S/C7H11I/c1-6-4-2-3-5-7(6)8/h4,7H,2-3,5H2,1H3
InchiKey: HOTMTBUTWQOXMD-UHFFFAOYSA-N
Formula: C7H11I
SMILES: CC1=CCCCC1I
Mol. weight [g/mol]: 222.07

Physical Properties

Property code	Value	Unit	Source
gf	110.96	kJ/mol	Joback Method
hf	-10.31	kJ/mol	Joback Method
hfus	10.96	kJ/mol	Joback Method
hvap	41.93	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	2.920		Crippen Method
mcvol	120.150	ml/mol	McGowan Method
pc	3517.91	kPa	Joback Method
rinpol	1181.00		NIST Webbook
tb	476.39	K	Joback Method
tc	722.59	K	Joback Method
tf	247.37	K	Joback Method
vc	0.434	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.17	J/mol×K	476.39	Joback Method
cpg	279.33	J/mol×K	681.56	Joback Method
cpg	268.44	J/mol×K	640.53	Joback Method
cpg	256.72	J/mol×K	599.49	Joback Method
cpg	244.12	J/mol×K	558.46	Joback Method
cpg	230.62	J/mol×K	517.42	Joback Method
cpg	289.44	J/mol×K	722.59	Joback Method
dvisc	0.0003557	Pa×s	476.39	Joback Method
dvisc	0.0004513	Pa×s	438.22	Joback Method

dvisc	0.0005992	Pa×s	400.05	Joback Method
dvisc	0.0008447	Pa×s	361.88	Joback Method
dvisc	0.0012912	Pa×s	323.71	Joback Method
dvisc	0.0022107	Pa×s	285.54	Joback Method
dvisc	0.0044685	Pa×s	247.37	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=R25508&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume