1H-Indene, 2,3,4,5,6,7-hexahydro-

Other names: 4,5,6,7-Tetrahydroindan
Inchi: InChI=1S/C9H14/c1-2-5-9-7-3-6-8(9)4-1/h1-7H2
InchiKey: CVKGBEGKZIIWRA-UHFFFAOYSA-N
Formula: C9H14
SMILES: C1CCC2=C(C1)CCC2
Mol. weight [g/mol]: 122.21
CAS: 695-90-9

Physical Properties

Property code	Value	Unit	Source
gf	136.22	kJ/mol	Joback Method
hf	-26.45	kJ/mol	Joback Method
hfus	7.34	kJ/mol	Joback Method
hvap	38.20	kJ/mol	Joback Method
log10ws	-3.23		Crippen Method
logp	3.041		Crippen Method
mcvol	111.650	ml/mol	McGowan Method
pc	3564.27	kPa	Joback Method
rinpol	1011.40		NIST Webbook
rinpol	1008.60		NIST Webbook
rinpol	1011.40		NIST Webbook
rinpol	1014.80		NIST Webbook
rinpol	1011.40		NIST Webbook
rinpol	1011.40		NIST Webbook
rinpol	1001.00		NIST Webbook
rinpol	1011.40		NIST Webbook
rinpol	1008.60		NIST Webbook
rinpol	1001.00		NIST Webbook
rinpol	1008.60		NIST Webbook
rinpol	1009.90		NIST Webbook
rinpol	1014.80		NIST Webbook
rinpol	1009.90		NIST Webbook
tb	450.07	K	Joback Method
tc	672.32	K	Joback Method
tf	250.79	K	Joback Method
vc	0.417	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.42	J/mol×K	450.07	Joback Method
cpg	305.13	J/mol×K	635.28	Joback Method
cpg	292.00	J/mol×K	598.24	Joback Method
cpg	277.94	J/mol×K	561.20	Joback Method
cpg	262.86	J/mol×K	524.15	Joback Method
cpg	246.71	J/mol×K	487.11	Joback Method
cpg	317.37	J/mol×K	672.32	Joback Method
dvisc	0.0004116	Pa×s	450.07	Joback Method
dvisc	0.0004968	Pa×s	416.86	Joback Method
dvisc	0.0006196	Pa×s	383.64	Joback Method
dvisc	0.0008058	Pa×s	350.43	Joback Method
dvisc	0.0011072	Pa×s	317.22	Joback Method
dvisc	0.0016386	Pa×s	284.00	Joback Method
dvisc	0.0026905	Pa×s	250.79	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C695909&Units=SI

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