Indene, 6-methyl-3a,4,7,7a-tetrahydro

Other names: Indene, 3a,4,7,7a-tetrahydro-6-methyl
Inchi: InChI=1S/C10H14/c1-8-5-6-9-3-2-4-10(9)7-8/h2-3,5,9-10H,4,6-7H2,1H3
InchiKey: MGBYEAMVKYHVOF-UHFFFAOYSA-N
Formula: C10H14
SMILES: CC1=CCC2C=CCC2C1
Mol. weight [g/mol]: 134.22

Physical Properties

Property code	Value	Unit	Source
gf	168.81	kJ/mol	Joback Method
hf	-18.52	kJ/mol	Joback Method
hfus	13.68	kJ/mol	Joback Method
hvap	39.44	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.919		Crippen Method
mcvol	121.440	ml/mol	McGowan Method
pc	3135.00	kPa	Joback Method
rinpol	1113.00		NIST Webbook
rinpol	1032.00		NIST Webbook
tb	457.79	K	Joback Method
tc	677.10	K	Joback Method
tf	241.82	K	Joback Method
vc	0.458	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.37	J/mol×K	457.79	Joback Method
cpg	275.55	J/mol×K	494.34	Joback Method
cpg	292.58	J/mol×K	530.89	Joback Method
cpg	308.52	J/mol×K	567.44	Joback Method
cpg	323.41	J/mol×K	604.00	Joback Method
cpg	337.33	J/mol×K	640.55	Joback Method
cpg	350.33	J/mol×K	677.10	Joback Method

dvisc	0.0014256	Pa×s	241.82	Joback Method
dvisc	0.0010239	Pa×s	277.81	Joback Method
dvisc	0.0007934	Pa×s	313.81	Joback Method
dvisc	0.0006480	Pa×s	349.80	Joback Method
dvisc	0.0005495	Pa×s	385.80	Joback Method
dvisc	0.0004794	Pa×s	421.79	Joback Method
dvisc	0.0004272	Pa×s	457.79	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=R3622&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