1H-Indene, 5-hexyl-2,3-dihydro-

Inchi: InChI=1S/C15H22/c1-2-3-4-5-7-13-10-11-14-8-6-9-15(14)12-13/h10-12H,2-9H2,1H3
InchiKey: HCJRTBCEQLVXLX-UHFFFAOYSA-N
Formula: C15H22
SMILES: CCCCCCc1ccc2c(c1)CCC2
Mol. weight [g/mol]: 202.34
CAS: 54889-55-3

Physical Properties

Property code	Value	Unit	Source
gf	237.03	kJ/mol	Joback Method
hf	-46.20	kJ/mol	Joback Method
hfus	24.93	kJ/mol	Joback Method
hvap	52.81	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.298		Crippen Method
mcvol	187.590	ml/mol	McGowan Method
pc	2077.43	kPa	Joback Method
tb	590.65	K	Joback Method
tc	797.73	K	Joback Method
tf	332.45	K	Joback Method
vc	0.726	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	478.70	J/mol×K	590.65	Joback Method
cpg	560.81	J/mol×K	763.22	Joback Method
cpg	546.30	J/mol×K	728.71	Joback Method
cpg	530.90	J/mol×K	694.19	Joback Method
cpg	514.55	J/mol×K	659.68	Joback Method
cpg	497.17	J/mol×K	625.16	Joback Method
cpg	574.50	J/mol×K	797.73	Joback Method
dvisc	0.0003275	Pa×s	590.65	Joback Method
dvisc	0.0003937	Pa×s	547.62	Joback Method

dvisc	0.0004886	Pa×s	504.58	Joback Method
dvisc	0.0006311	Pa×s	461.55	Joback Method
dvisc	0.0008594	Pa×s	418.52	Joback Method
dvisc	0.0012559	Pa×s	375.48	Joback Method
dvisc	0.0020249	Pa×s	332.45	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54889553&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume