1H-Indene, 2,3-dihydro-5,6-dimethyl-

Other names: 5,6-Dimethylindan
Indan, 5,6-dimethyl-
Inchi: InChI=1S/C11H14/c1-8-6-10-4-3-5-11(10)7-9(8)2/h6-7H,3-5H2,1-2H3
InchiKey: HKXZLQYYRMVUQO-UHFFFAOYSA-N
Formula: C11H14
SMILES: Cc1cc2c(cc1C)CCC2
Mol. weight [g/mol]: 146.23
CAS: 1075-22-5

Physical Properties

Property code	Value	Unit	Source
gf	193.72	kJ/mol	Joback Method
hf	24.89	kJ/mol	Joback Method
hfus	14.18	kJ/mol	Joback Method
hvap	44.56	kJ/mol	Joback Method
log10ws	-3.50		Crippen Method
logp	2.792		Crippen Method
mcvol	131.230	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
tb	504.11	K	Joback Method
tc	726.58	K	Joback Method
tf	299.89	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.59	J/mol×K	504.11	Joback Method
cpg	355.21	J/mol×K	689.50	Joback Method
cpg	343.21	J/mol×K	652.42	Joback Method
cpg	330.42	J/mol×K	615.34	Joback Method
cpg	316.75	J/mol×K	578.27	Joback Method
cpg	302.17	J/mol×K	541.19	Joback Method
cpg	366.45	J/mol×K	726.58	Joback Method

dvisc	0.0003689	Pa×s	504.11	Joback Method
dvisc	0.0004233	Pa×s	470.07	Joback Method
dvisc	0.0004962	Pa×s	436.04	Joback Method
dvisc	0.0005977	Pa×s	402.00	Joback Method
dvisc	0.0007450	Pa×s	367.96	Joback Method
dvisc	0.0009713	Pa×s	333.93	Joback Method
dvisc	0.0013450	Pa×s	299.89	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=C1075225&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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