1H-Indene, 2,3-dihydro-4,5,7-trimethyl-

Other names: Indan, 4,5,7-trimethyl-
Inchi: InChI=1S/C12H16/c1-8-7-9(2)11-5-4-6-12(11)10(8)3/h7H,4-6H2,1-3H3
InchiKey: NFLKDIOSDXSKTG-UHFFFAOYSA-N
Formula: C12H16
SMILES: Cc1cc(C)c2c(c1C)CCC2
Mol. weight [g/mol]: 160.26
CAS: 6682-06-0

Physical Properties

Property code	Value	Unit	Source
gf	192.51	kJ/mol	Joback Method
hf	-7.22	kJ/mol	Joback Method
hfus	16.39	kJ/mol	Joback Method
hvap	47.45	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.101		Crippen Method
mcvol	145.320	ml/mol	McGowan Method
pc	2668.02	kPa	Joback Method
tb	531.97	K	Joback Method
tc	751.82	K	Joback Method
tf	323.68	K	Joback Method
vc	0.557	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.29	J/mol×K	531.97	Joback Method
cpg	348.33	J/mol×K	568.61	Joback Method
cpg	363.42	J/mol×K	605.25	Joback Method
cpg	377.63	J/mol×K	641.90	Joback Method
cpg	390.99	J/mol×K	678.54	Joback Method
cpg	403.57	J/mol×K	715.18	Joback Method
cpg	415.43	J/mol×K	751.82	Joback Method
dvisc	0.0011982	Pa×s	323.68	Joback Method

dvisc	0.0008882	Pa×s	358.40	Joback Method
dvisc	0.0006941	Pa×s	393.11	Joback Method
dvisc	0.0005646	Pa×s	427.83	Joback Method
dvisc	0.0004737	Pa×s	462.54	Joback Method
dvisc	0.0004073	Pa×s	497.26	Joback Method
dvisc	0.0003572	Pa×s	531.97	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6682060&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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