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

Other names:	Indan, 1,3-dimethyl-
	1,3-Dimethylindan
	1,3-Dimethyl-(2,3-dihydroindene)
	2,3-Dihydro-1,3-dimethyl-1H-indene
Inchi:	InChI=1S/C11H14/c1-8-7-9(2)11-6-4-3-5-10(8)11/h3-6,8-9H,7H2,1-2H3
InchiKey:	IIJUYSSJMAITHJ-UHFFFAOYSA-N
Formula:	C11H14
SMILES:	CC1CC(C)c2ccccc21
Mol. weight [g/mol]:	146.23
CAS:	4175-53-5

Physical Properties

Property code	Value	Unit	Source
gf	197.56	kJ/mol	Joback Method
hf	7.15	kJ/mol	Joback Method
hfus	17.10	kJ/mol	Joback Method
hvap	42.62	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	3.297		Crippen Method
mcvol	131.230	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
rinpol	1127.00		NIST Webbook
rinpol	1135.00		NIST Webbook
rinpol	1127.00		NIST Webbook
rinpol	1135.00		NIST Webbook
rinpol	200.61		NIST Webbook
tb	484.81	K	Joback Method
tc	704.37	K	Joback Method
tf	266.37	K	Joback Method
vc	0.499	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	287.13	J/mol×K	484.81	Joback Method
cpg	304.41	J/mol×K	521.40	Joback Method
cpg	320.61	J/mol×K	558.00	Joback Method
cpg	335.79	J/mol×K	594.59	Joback Method
cpg	349.99	J/mol×K	631.19	Joback Method
cpg	363.28	J/mol×K	667.78	Joback Method
cpg	375.72	J/mol×K	704.37	Joback Method
dvisc	0.0010979	Pa×s	266.37	Joback Method
dvisc	0.0008508	Pa×s	302.78	Joback Method
dvisc	0.0006964	Pa×s	339.18	Joback Method
dvisc	0.0005926	Pa×s	375.59	Joback Method
dvisc	0.0005189	Pa×s	412.00	Joback Method
dvisc	0.0004642	Pa×s	448.40	Joback Method
dvisc	0.0004223	Pa×s	484.81	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=C4175535&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