1H-Indene, 4,7-dimethyl-

Other names: 4,7-dimethyl-1H-indene
Inchi: InChI=1S/C11H12/c1-8-6-7-9(2)11-5-3-4-10(8)11/h3-4,6-7H,5H2,1-2H3
InchiKey: DKLQZDIAQKGVTA-UHFFFAOYSA-N
Formula: C11H12
SMILES: Cc1ccc(C)c2c1C=CC2
Mol. weight [g/mol]: 144.21
CAS: 6974-97-6

Physical Properties

Property code	Value	Unit	Source
gf	223.68	kJ/mol	Joback Method
hf	82.67	kJ/mol	Joback Method
hfus	15.41	kJ/mol	Joback Method
hvap	44.86	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	2.873		Crippen Method
mcvol	126.930	ml/mol	McGowan Method
pc	3124.49	kPa	Joback Method
tb	503.27	K	Joback Method
tc	728.03	K	Joback Method
tf	300.65	K	Joback Method
vc	0.487	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.58	J/mol×K	503.27	Joback Method
cpg	283.86	J/mol×K	540.73	Joback Method
cpg	297.19	J/mol×K	578.19	Joback Method
cpg	309.63	J/mol×K	615.65	Joback Method
cpg	321.25	J/mol×K	653.11	Joback Method
cpg	332.10	J/mol×K	690.57	Joback Method
cpg	342.25	J/mol×K	728.03	Joback Method
dvisc	0.0011595	Pa×s	300.65	Joback Method

dvisc	0.0008680	Pa×s	334.42	Joback Method
dvisc	0.0006853	Pa×s	368.19	Joback Method
dvisc	0.0005629	Pa×s	401.96	Joback Method
dvisc	0.0004767	Pa×s	435.73	Joback Method
dvisc	0.0004135	Pa×s	469.50	Joback Method
dvisc	0.0003656	Pa×s	503.27	Joback Method

Sources

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=C6974976&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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