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

Other names:	Indan, 1-ethyl-
	1-Ethylindan
	1-Ethyl-(2,3-dihydroindene)
Inchi:	InChI=1S/C11H14/c1-2-9-7-8-10-5-3-4-6-11(9)10/h3-6,9H,2,7-8H2,1H3
InchiKey:	SECAQUZEXAHWBA-UHFFFAOYSA-N
Formula:	C11H14
SMILES:	CCC1CCc2ccccc21
Mol. weight [g/mol]:	146.23
CAS:	4830-99-3

Physical Properties

Property code	Value	Unit	Source
gf	205.27	kJ/mol	Joback Method
hf	27.49	kJ/mol	Joback Method
hfus	16.03	kJ/mol	Joback Method
hvap	42.93	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	3.126		Crippen Method
mcvol	131.230	ml/mol	McGowan Method
pc	2992.59	kPa	Joback Method
tb	489.48	K	Joback Method
tc	709.25	K	Joback Method
tf	270.61	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.45	J/mol×K	489.48	Joback Method
cpg	303.32	J/mol×K	526.11	Joback Method
cpg	319.08	J/mol×K	562.74	Joback Method
cpg	333.79	J/mol×K	599.36	Joback Method
cpg	347.54	J/mol×K	635.99	Joback Method
cpg	360.36	J/mol×K	672.62	Joback Method

cpg	372.35	J/mol×K	709.25	Joback Method
dvisc	0.0015628	Pa×s	270.61	Joback Method
dvisc	0.0010940	Pa×s	307.09	Joback Method
dvisc	0.0008261	Pa×s	343.57	Joback Method
dvisc	0.0006583	Pa×s	380.04	Joback Method
dvisc	0.0005459	Pa×s	416.52	Joback Method
dvisc	0.0004665	Pa×s	453.00	Joback Method
dvisc	0.0004082	Pa×s	489.48	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=C4830993&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