1H-Indene, 1-ethylidene-

Other names:	Indene, 1-ethylidene- 1-Ethylidene-1H-indene 1-Ethylidene indene
Inchi:	InChI=1S/C11H10/c1-2-9-7-8-10-5-3-4-6-11(9)10/h2-8H,1H3/b9-2+
InchiKey:	HNZQPQACDDJLTD-XNWCZRBMSA-N
Formula:	C11H10
SMILES:	CC=C1C=Cc2ccccc21
Mol. weight [g/mol]:	142.20
CAS:	2471-83-2

Physical Properties

Property code	Value	Unit	Source
gf	288.40	kJ/mol	Joback Method
hf	181.64	kJ/mol	Joback Method
hfus	16.51	kJ/mol	Joback Method
hvap	44.32	kJ/mol	Joback Method
log10ws	-3.43		Crippen Method
logp	3.117		Crippen Method
mcvol	122.630	ml/mol	McGowan Method
pc	3341.24	kPa	Joback Method
rinpol	227.46		NIST Webbook
ripol	1867.00		NIST Webbook
ripol	1867.00		NIST Webbook
tb	499.95	K	Joback Method
tc	730.12	K	Joback Method
tf	285.97	K	Joback Method
vc	0.470	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	252.20	J/mol×K	499.95	Joback Method
cpg	265.98	J/mol×K	538.31	Joback Method
cpg	278.70	J/mol×K	576.67	Joback Method

cpg	290.44	J/mol×K	615.04	Joback Method
cpg	301.28	J/mol×K	653.40	Joback Method
cpg	311.32	J/mol×K	691.76	Joback Method
cpg	320.64	J/mol×K	730.12	Joback Method
dvisc	0.0012341	Pa×s	285.97	Joback Method
dvisc	0.0008864	Pa×s	321.63	Joback Method
dvisc	0.0006802	Pa×s	357.30	Joback Method
dvisc	0.0005476	Pa×s	392.96	Joback Method
dvisc	0.0004571	Pa×s	428.62	Joback Method
dvisc	0.0003923	Pa×s	464.29	Joback Method
dvisc	0.0003440	Pa×s	499.95	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=C2471832&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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume