1H-Indene, 1-phenyl-

Other names:	1-Phenyl-1H-indene
	1-phenyl indene
Inchi:	InChI=1S/C15H12/c1-2-6-12(7-3-1)15-11-10-13-8-4-5-9-14(13)15/h1-11,15H
InchiKey:	PXORBAGTGTXORO-UHFFFAOYSA-N
Formula:	C15H12
SMILES:	C1=CC(c2ccccc2)c2ccccc21
Mol. weight [g/mol]:	192.26
CAS:	1961-96-2

Physical Properties

Property code	Value	Unit	Source
gf	381.32	kJ/mol	Joback Method
hf	239.24	kJ/mol	Joback Method
hfus	21.66	kJ/mol	Joback Method
hvap	54.40	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	3.845		Crippen Method
mcvol	159.530	ml/mol	McGowan Method
pc	2937.70	kPa	Joback Method
rinpol	311.12		NIST Webbook
rinpol	299.20		NIST Webbook
rinpol	311.12		NIST Webbook
rinpol	292.16		NIST Webbook
rinpol	299.20		NIST Webbook
rinpol	311.12		NIST Webbook
rinpol	304.80		NIST Webbook
rinpol	299.20		NIST Webbook
tb	606.84	K	Joback Method
tc	863.09	K	Joback Method
tf	342.87	K	Joback Method
vc	0.603	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	385.98	J/mol×K	606.84	Joback Method
cpg	403.40	J/mol×K	649.55	Joback Method
cpg	419.30	J/mol×K	692.26	Joback Method
cpg	433.82	J/mol×K	734.96	Joback Method
cpg	447.09	J/mol×K	777.67	Joback Method
cpg	459.27	J/mol×K	820.38	Joback Method
cpg	470.48	J/mol×K	863.09	Joback Method
dvisc	0.0016754	Pa×s	342.87	Joback Method
dvisc	0.0011529	Pa×s	386.87	Joback Method
dvisc	0.0008563	Pa×s	430.86	Joback Method
dvisc	0.0006721	Pa×s	474.86	Joback Method
dvisc	0.0005496	Pa×s	518.85	Joback Method
dvisc	0.0004638	Pa×s	562.85	Joback Method
dvisc	0.0004011	Pa×s	606.84	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=C1961962&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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature

tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume