Indane, 1-phenyl

Inchi: InChI=1S/C15H14/c1-2-6-12(7-3-1)15-11-10-13-8-4-5-9-14(13)15/h1-9,15H,10-11H2
InchiKey: VNAFWALXWOAPCK-UHFFFAOYSA-N
Formula: C15H14
SMILES: c1ccc(C2CCc3ccccc32)cc1
Mol. weight [g/mol]: 194.27

Physical Properties

Property code	Value	Unit	Source
gf	351.36	kJ/mol	Joback Method
hf	181.46	kJ/mol	Joback Method
hfus	20.43	kJ/mol	Joback Method
hvap	54.11	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	3.765		Crippen Method
mcvol	163.830	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
rinpol	1618.00		NIST Webbook
tb	607.68	K	Joback Method
tc	861.33	K	Joback Method
tf	342.11	K	Joback Method
vc	0.617	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.94	J/mol×K	607.68	Joback Method
cpg	425.64	J/mol×K	649.95	Joback Method
cpg	442.78	J/mol×K	692.23	Joback Method
cpg	458.49	J/mol×K	734.50	Joback Method
cpg	472.90	J/mol×K	776.78	Joback Method
cpg	486.15	J/mol×K	819.05	Joback Method
cpg	498.37	J/mol×K	861.33	Joback Method
dvisc	0.0018621	Pa×s	342.11	Joback Method
dvisc	0.0012365	Pa×s	386.37	Joback Method

dvisc	0.0008932	Pa×s	430.63	Joback Method
dvisc	0.0006855	Pa×s	474.89	Joback Method
dvisc	0.0005504	Pa×s	519.16	Joback Method
dvisc	0.0004575	Pa×s	563.42	Joback Method
dvisc	0.0003906	Pa×s	607.68	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R73004&Units=SI
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

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