1H-Indene, 1-phenylmethyl

Inchi: InChI=1S/C16H14/c1-2-6-13(7-3-1)12-15-11-10-14-8-4-5-9-16(14)15/h1-11,15H,12H2
InchiKey: NBHBNYRLTADHQY-UHFFFAOYSA-N
Formula: C16H14
SMILES: C1=CC(Cc2ccccc2)c2ccccc21
Mol. weight [g/mol]: 206.28

Physical Properties

Property code	Value	Unit	Source
gf	389.74	kJ/mol	Joback Method
hf	218.60	kJ/mol	Joback Method
hfus	24.25	kJ/mol	Joback Method
hvap	56.63	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	4.040		Crippen Method
mcvol	173.620	ml/mol	McGowan Method
pc	2654.29	kPa	Joback Method
rinpol	1892.00		NIST Webbook
tb	629.72	K	Joback Method
tc	880.12	K	Joback Method
tf	354.14	K	Joback Method
vc	0.658	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.82	J/mol×K	629.72	Joback Method
cpg	453.69	J/mol×K	671.45	Joback Method
cpg	470.07	J/mol×K	713.19	Joback Method
cpg	485.09	J/mol×K	754.92	Joback Method
cpg	498.90	J/mol×K	796.65	Joback Method
cpg	511.62	J/mol×K	838.39	Joback Method
cpg	523.39	J/mol×K	880.12	Joback Method
dvisc	0.0017311	Pa×s	354.14	Joback Method
dvisc	0.0011653	Pa×s	400.07	Joback Method

dvisc	0.0008510	Pa×s	446.00	Joback Method
dvisc	0.0006591	Pa×s	491.93	Joback Method
dvisc	0.0005332	Pa×s	537.86	Joback Method
dvisc	0.0004460	Pa×s	583.79	Joback Method
dvisc	0.0003829	Pa×s	629.72	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=R72945&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume