Indane, 1-(2-phenylethyl)

Inchi: InChI=1S/C17H18/c1-2-6-14(7-3-1)10-11-16-13-12-15-8-4-5-9-17(15)16/h1-9,16H,10-13
InchiKey: HHCVWDDVNPVAEC-UHFFFAOYSA-N
Formula: C17H18
SMILES: c1ccc(CCC2CCc3ccccc32)cc1
Mol. weight [g/mol]: 222.32

Physical Properties

Property code	Value	Unit	Source
gf	368.20	kJ/mol	Joback Method
hf	140.18	kJ/mol	Joback Method
hfus	25.61	kJ/mol	Joback Method
hvap	58.56	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.349		Crippen Method
mcvol	192.010	ml/mol	McGowan Method
pc	2327.03	kPa	Joback Method
rinpol	1768.00		NIST Webbook
tb	653.44	K	Joback Method
tc	895.97	K	Joback Method
tf	364.65	K	Joback Method
vc	0.729	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	509.64	J/mol×K	653.44	Joback Method
cpg	529.00	J/mol×K	693.86	Joback Method
cpg	546.87	J/mol×K	734.28	Joback Method
cpg	563.37	J/mol×K	774.71	Joback Method
cpg	578.62	J/mol×K	815.13	Joback Method
cpg	592.76	J/mol×K	855.55	Joback Method
cpg	605.90	J/mol×K	895.97	Joback Method
dvisc	0.0019234	Pa×s	364.65	Joback Method
dvisc	0.0012250	Pa×s	412.78	Joback Method

dvisc	0.0008573	Pa×s	460.91	Joback Method
dvisc	0.0006418	Pa×s	509.04	Joback Method
dvisc	0.0005052	Pa×s	557.18	Joback Method
dvisc	0.0004130	Pa×s	605.31	Joback Method
dvisc	0.0003479	Pa×s	653.44	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R72995&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

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