

Naphthalene, 3-benzyl-1,2-dihydro-

Other names:	2-(phenylmethyl)-1,2-dihydronaphthalene
Inchi:	InChI=1S/C17H16/c1-2-6-14(7-3-1)12-15-10-11-16-8-4-5-9-17(16)13-15/h1-9,13H,10-12H
InchiKey:	DMNITMMCUNYUKZ-UHFFFAOYSA-N
Formula:	C17H16
SMILES:	C1=C(Cc2ccccc2)CCc2ccccc21
Mol. weight [g/mol]:	220.31
CAS:	27019-11-0

Physical Properties

Property code	Value	Unit	Source
gf	384.14	kJ/mol	Joback Method
hf	200.67	kJ/mol	Joback Method
hfus	23.28	kJ/mol	Joback Method
hvap	60.00	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.259		Crippen Method
mcvol	187.710	ml/mol	McGowan Method
pc	2515.07	kPa	Joback Method
tb	666.52	K	Joback Method
tc	920.42	K	Joback Method
tf	378.65	K	Joback Method
vc	0.708	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.18	J/molxK	666.52	Joback Method
cpg	564.04	J/molxK	878.10	Joback Method
cpg	550.94	J/molxK	835.79	Joback Method
cpg	536.74	J/molxK	793.47	Joback Method
cpg	521.30	J/molxK	751.15	Joback Method
cpg	504.49	J/molxK	708.84	Joback Method
cpg	576.16	J/molxK	920.42	Joback Method
dvisc	0.0002280	Paxs	666.52	Joback Method

dvisc	0.0002787	Paxs	618.54	Joback Method
dvisc	0.0003524	Paxs	570.56	Joback Method
dvisc	0.0004651	Paxs	522.59	Joback Method
dvisc	0.0006494	Paxs	474.61	Joback Method
dvisc	0.0009773	Paxs	426.63	Joback Method
dvisc	0.0016312	Paxs	378.65	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C27019110&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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