

Methanone, diphenyl-, phenylhydrazone

Other names:	Benzophenone, phenylhydrazone Diphenyl-methyl-diazo-benzene
Inchi:	InChI=1S/C19H16N2/c1-4-10-16(11-5-1)19(17-12-6-2-7-13-17)21-20-18-14-8-3-9-15-18/
InchiKey:	LJPHROJMJFFANK-UHFFFAOYSA-N
Formula:	C19H16N2
SMILES:	c1ccc(NN=C(c2ccccc2)c2ccccc2)cc1
Mol. weight [g/mol]:	272.34
CAS:	574-61-8

Physical Properties

Property code	Value	Unit	Source
chs	-9852.50	kJ/mol	NIST Webbook
hf	400.00	kJ/mol	Joback Method
hfs	42.30	kJ/mol	NIST Webbook
hvap	74.55	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.551		Crippen Method
mcvol	222.950	ml/mol	McGowan Method
pc	2191.78	kPa	Joback Method
tb	840.89	K	Joback Method
tc	1114.71	K	Joback Method

Sources

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=C574618&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation 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

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