Ethanone, 1-phenyl-, (1-phenylethylidene)hydrazone

Other names: Acetophenone, azine
Ethanone, 1-phenyl-, azine
1-phenylethan-1-one (1-phenylethylidene)hydrazone

Inchi: InChI=1S/C16H16N2/c1-13(15-9-5-3-6-10-15)17-18-14(2)16-11-7-4-8-12-16/h3-12H,1-2H

InchiKey: MOKMQSIJAHPSQX-UHFFFAOYSA-N

Formula: C16H16N2

SMILES: CC(=NN=C(C)c1ccccc1)c1ccccc1

Mol. weight [g/mol]: 236.31

CAS: 729-43-1

Physical Properties

Property code	Value	Unit	Source
hf	244.35	kJ/mol	Joback Method
hvap	62.55	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	3.920		Crippen Method
mcvol	200.140	ml/mol	McGowan Method
pc	1903.58	kPa	Joback Method
tb	771.96	K	Joback Method
tc	1037.19	K	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=C729431&Units=SI

Legend

hf:	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