Methanediamine, 1-phenyl-N,N'-bis(phenylmethylene)-

Other names: Toluene-«alpha»,«alpha»-diamine, N,N'-dibenzylidene-
Hydrobenzamide
N,N'-Dibenzylidenetoluene-«alpha»,«alpha»-diamine
«alpha»,«alpha»-Bis(benzylidenimino)toluene

Inchi: InChI=1S/C21H18N2/c1-4-10-18(11-5-1)16-22-21(20-14-8-3-9-15-20)23-17-19-12-6-2-7-

InchiKey: VUYRFIIFTJICNA-UHFFFAOYSA-N

Formula: C21H18N2

SMILES: C(=NC(N=Cc1ccccc1)c1ccccc1)c1ccccc1

Mol. weight [g/mol]: 298.38

CAS: 92-29-5

Physical Properties

Property code	Value	Unit	Source
hf	391.98	kJ/mol	Joback Method
hvap	75.41	kJ/mol	Joback Method
log10ws	-5.41		Crippen Method
logp	4.923		Crippen Method
mcvol	246.830	ml/mol	McGowan Method
pc	1675.53	kPa	Joback Method
tb	912.84	K	Joback Method
tc	1190.30	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=C92295&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