Cyclohexanamine, N-(phenylmethylene)-

Other names:	Cyclohexylamine, N-benzylidene-
	N-Benzylidenecyclohexylamine
	Benzylidene-cyclohexyl-amine
	N-Cyclohexylbenzenemethanimine
	N-(Phenylmethylidene)cyclohexanamine
Inchi:	InChI=1S/C13H17N/c1-3-7-12(8-4-1)11-14-13-9-5-2-6-10-13/h1,3-4,7-8,11,13H,2,5-6,9-1
InchiKey:	QKSQEJXIILKPDX-UHFFFAOYSA-N
Formula:	C13H17N
SMILES:	C(=NC1CCCCC1)c1ccccc1
Mol. weight [g/mol]:	187.28
CAS:	2211-66-7

Physical Properties

Property code	Value	Unit	Source
hf	61.42	kJ/mol	Joback Method
hvap	50.55	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.438		Crippen Method
mcvol	165.090	ml/mol	McGowan Method
pc	2414.74	kPa	Joback Method
rinpol	1658.00		NIST Webbook
tb	619.75	K	Joback Method
tc	872.72	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2211667&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

Latest version available from:
https://www.chemeo.com/cid/17-458-5/Cyclohexanamine-N-phenylmethylene.pdf
Generated by Cheméo on 2024-04-18 03:13:32.15412315 +0000 UTC m=+15699261.074700462.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.