Benzenemethanamine, N-(phenylmethylene)-

Other names:	Benzylamine, N-benzylidene-
	Benzylidenebenzylamine
	N-(Phenylmethylene)benzenemethanamine
	N-Benzylidenebenzylamine
	Benzaldehyde N-benzylimine
Inchi:	InChI=1S/C14H13N/c1-3-7-13(8-4-1)11-15-12-14-9-5-2-6-10-14/h1-11H,12H2
InchiKey:	MIYKHJXFICMPOJ-UHFFFAOYSA-N
Formula:	C14H13N
SMILES:	C(=NCc1ccccc1)c1ccccc1
Mol. weight [g/mol]:	195.26
CAS:	780-25-6

Physical Properties

Property code	Value	Unit	Source
hf	222.99	kJ/mol	Joback Method
hvap	54.62	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	3.306		Crippen Method
mcvol	166.280	ml/mol	McGowan Method
pc	2487.55	kPa	Joback Method
rinpol	1817.00		NIST Webbook
rinpol	1761.20		NIST Webbook
tb	649.76	K	Joback Method
tc	905.17	K	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	416.70	K	0.70	NIST Webbook

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=C780256&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature