Benzenamine, 4-methyl-N-(phenylmethylene)-

Other names: Benzylidene-(4-methylphenyl)-amine
N-benzylidene-p-toluidine
Inchi: InChI=1S/C14H13N/c1-12-7-9-14(10-8-12)15-11-13-5-3-2-4-6-13/h2-11H,1H3
InchiKey: MSFVFFZPHJPOHP-UHFFFAOYSA-N
Formula: C14H13N
SMILES: Cc1ccc(N=Cc2ccccc2)cc1
Mol. weight [g/mol]: 195.26
CAS: 2272-45-9

Physical Properties

Property code	Value	Unit	Source
hf	211.52	kJ/mol	Joback Method
hvap	55.29	kJ/mol	Joback Method
log10ws	-3.81		Crippen Method
logp	3.746		Crippen Method
mcvol	166.280	ml/mol	McGowan Method
pc	2450.74	kPa	Joback Method
rinpol	1882.00		NIST Webbook
tb	654.74	K	Joback Method
tc	911.07	K	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	451.20	K	1.50	NIST Webbook

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=C2272459&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature