N,N'-Dibenzylideneethylenediamine

Other names:	Dibenzylidene ethylenediamine
	1,2-Ethanediamine, N,N'-bis(phenylmethylene)-
	Ethylenediamine, N,N'-dibenzylidene-
	N,N'-Bis(benzylidene)ethylenediamine
Inchi:	InChI=1S/C16H16N2/c1-3-7-15(8-4-1)13-17-11-12-18-14-16-9-5-2-6-10-16/h1-10,13-14H
InchiKey:	QBAKBJNOARBSGP-UHFFFAOYSA-N
Formula:	C16H16N2
SMILES:	C(=NCCN=Cc1ccccc1)c1ccccc1
Mol. weight [g/mol]:	236.31
CAS:	104-71-2

Physical Properties

Property code	Value	Unit	Source
chs	-8854.20 ± 8.40	kJ/mol	NIST Webbook
hf	263.93	kJ/mol	Joback Method
hvap	62.39	kJ/mol	Joback Method
log10ws	-3.26		Crippen Method
logp	3.225		Crippen Method
mcvol	200.140	ml/mol	McGowan Method
pc	1887.08	kPa	Joback Method
tb	772.20	K	Joback Method
tc	1028.77	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	83.70 ± 2.10	kJ/mol	293.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C104712&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

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
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