Benzaldehyde, (phenylmethylene)hydrazone

Other names:	Benzaldehyde, azine
	Benzalazine
	Benzaldazin
	Benzaldazine
	Benzylideneazine
	Dibenzalhydrazine
	Dibenzylidenehydrazine
	Eusolex
	1,2-Dibenzylidenehydrazine
	1,4-Diphenylformalazine
	N,N'-Dibenzalhydrazine
	Dibenzalazine
	6653
	Eusolex 6653
	Benzaldehyde, 2-(phenylmethylene)hydrazone
	NSC 3269
	Dibenzylideneazine
Inchi:	InChI=1S/C14H12N2/c1-3-7-13(8-4-1)11-15-16-12-14-9-5-2-6-10-14/h1-12H
InchiKey:	CWLGEPSKQDNHIO-UHFFFAOYSA-N
Formula:	C14H12N2
SMILES:	C(=NN=Cc1ccccc1)c1ccccc1
Mol. weight [g/mol]:	208.26
CAS:	588-68-1

Physical Properties

Property code	Value	Unit	Source
chs	-7563.00 ± 13.00	kJ/mol	NIST Webbook
hf	305.21	kJ/mol	Joback Method
hvap	57.94	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.140		Crippen Method
mcvol	171.960	ml/mol	McGowan Method
pc	2246.13	kPa	Joback Method
tb	726.44	K	Joback Method
tc	995.50	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	93.30 ± 2.10	kJ/mol	293.00	NIST Webbook
hsubt	93.00 ± 2.00	kJ/mol	293.00	NIST Webbook
hsubt	93.30 ± 2.10	kJ/mol	293.00	NIST Webbook
hsubt	93.00 ± 2.00	kJ/mol	293.00	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=C588681&Units=SI

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