

Benzaldehyde, phenylhydrazone

Other names:	Benzalphenylhydrazine Benzylidenephénylhydrazine Diphenylhydrazone N-Phenyl-N'-benzylidenehydrazine
Inchi:	InChI=1S/C13H12N2/c1-3-7-12(8-4-1)11-14-15-13-9-5-2-6-10-13/h1-11,15H
InchiKey:	JGOAZQAXRONCCI-UHFFFAOYSA-N
Formula:	C13H12N2
SMILES:	C(=NNc1ccccc1)c1ccccc1
Mol. weight [g/mol]:	196.25
CAS:	588-64-7

Physical Properties

Property code	Value	Unit	Source
chs	-6777.20	kJ/mol	NIST Webbook
hf	297.10	kJ/mol	Joback Method
hfs	-53.60	kJ/mol	NIST Webbook
hfs	-48.50	kJ/mol	NIST Webbook
hvap	58.83	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	3.133		Crippen Method
mcvol	162.170	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
tb	677.05	K	Joback Method
tc	934.65	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C588647&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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