

Phenazine, 5-oxide

Other names:	N-Oxyphenazine Phenazine mono-N-oxide Phenazine monooxide Phenazine N-oxide Phenazine 9-oxide Phenazine, N-monoxide N-Oxide de phenazine Phenazin Phenazin-5-oxide Phenazine-5N-oxide Phenazin oxide PZ 13 NSC 202998 NSC 21665
Inchi:	InChI=1S/C12H8N2O/c15-14-11-7-3-1-5-9(11)13-10-6-2-4-8-12(10)14/h1-8H
InchiKey:	FFISWZPYNKWIRR-UHFFFAOYSA-N
Formula:	C12H8N2O
SMILES:	[O-][n+]1c2ccccc2nc2ccccc21
Mol. weight [g/mol]:	196.20
CAS:	304-81-4

Physical Properties

Property code	Value	Unit	Source
chs	-6062.70 ± 4.50	kJ/mol	NIST Webbook
hf	297.30 ± 4.80	kJ/mol	NIST Webbook
hfs	197.30 ± 4.60	kJ/mol	NIST Webbook
hsub	100.00 ± 1.30	kJ/mol	NIST Webbook
hsub	100.00 ± 1.30	kJ/mol	NIST Webbook
ie	8.10	eV	NIST Webbook
ie	8.00 ± 0.02	eV	NIST Webbook
log10ws	-6.37		Crippen Method
logp	2.021		Crippen Method
mcvol	143.090	ml/mol	McGowan Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C304814&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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