

# Phthalazine

<b>Other names:</b>	Benzo[d]pyridazine «beta»-Phenodiazine 2,3-Benzodiazine 2,3-Diazanaphthalene
<b>Inchi:</b>	InChI=1S/C8H6N2/c1-2-4-8-6-10-9-5-7(8)3-1/h1-6H
<b>InchiKey:</b>	LFSXCDWNBUNEEM-UHFFFAOYSA-N
<b>Formula:</b>	C8H6N2
<b>SMILES:</b>	<chem>c1ccc2cnnc2c1</chem>
<b>Mol. weight [g/mol]:</b>	130.15
<b>CAS:</b>	253-52-1

## Physical Properties

Property code	Value	Unit	Source
chs	-4253.20 ± 2.10	kJ/mol	NIST Webbook
chs	-4267.00 ± 17.00	kJ/mol	NIST Webbook
hf	329.90 ± 3.30	kJ/mol	NIST Webbook
hf	345.00 ± 18.00	kJ/mol	NIST Webbook
hfs	261.00 ± 17.00	kJ/mol	NIST Webbook
hfs	247.60 ± 2.30	kJ/mol	NIST Webbook
hsub	82.30 ± 2.30	kJ/mol	NIST Webbook
hsub	81.10 ± 0.40	kJ/mol	NIST Webbook
hsub	82.30 ± 2.30	kJ/mol	NIST Webbook
hsub	83.92 ± 0.68	kJ/mol	NIST Webbook
hsub	84.00	kJ/mol	NIST Webbook
hsub	82.30	kJ/mol	NIST Webbook
ie	9.22 ± 0.01	eV	NIST Webbook
ie	8.68	eV	NIST Webbook
ie	8.40	eV	NIST Webbook
ie	8.70	eV	NIST Webbook
log10ws	-2.81		Crippen Method
logp	1.630		Crippen Method
mcvol	100.320	ml/mol	McGowan Method
rinpol	1437.00		NIST Webbook
tf	364.00 ± 0.10	K	NIST Webbook

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	13.32	kJ/mol	364.50	NIST Webbook
hfust	13.32	kJ/mol	364.50	NIST Webbook

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	462.20	K	3.90	NIST Webbook
tbrp	448.20	K	2.30	NIST Webbook

## Sources

Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C253521&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C253521&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>rinpol:</b>	Non-polar retention indices
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tf:</b>	Normal melting (fusion) point

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