

N-Phenylmaleimide

Other names:	1H-Pyrrole-2,5-dione, 1-phenyl- Maleimide, N-phenyl- Maleanil Maleimidobenzene Maleinanil N-Fenylimid kyseliny maleinove Pyrrole-1,5-dione, N-phenyl- N-Phenylpyrrole-2,5-dione NSC 8183 Phenylmaleimide N-phenyl-2,5-dioxo-iso-pyrrole
Inchi:	InChI=1S/C10H7NO2/c12-9-6-7-10(13)11(9)8-4-2-1-3-5-8/h1-7H
InchiKey:	HIDBROSJWZYGSZ-UHFFFAOYSA-N
Formula:	C10H7NO2
SMILES:	O=C1C=CC(=O)N1c1ccccc1
Mol. weight [g/mol]:	173.17
CAS:	941-69-5

Physical Properties

Property code	Value	Unit	Source
ea	1.36 ± 0.09	eV	NIST Webbook
log10ws	-1.52		Crippen Method
logp	1.116		Crippen Method
mcvol	125.960	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	98.00 ± 1.00	kJ/mol	360.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	435.20	K	1.60	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C941695&Units=SI

Legend

ea:	Electron affinity
hsubt:	Enthalpy of sublimation at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tbrp:	Boiling point at reduced pressure

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