PYRROLE-1,5-DIONE, N-PHENYL-

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

Physical Properties

Property code	Value	Unit	Source
ea	1.36 ± 0.09	eV	NIST Webbook
ie	8.73	eV	Cheméo Relay (1.0)
logp	1.116		Crippen Method
mcvol	125.960	ml/mol	McGowan Method
tf	370.94	K	Cheméo Relay (1.0)

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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

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

ie: Ionization energy

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume

tbrp: Boiling point at reduced pressure

tf: Normal melting (fusion) point