N-hydroxyphthalimide

Other names: phthalimide, N-hydroxy-
Inchi: InChI=1S/C8H5NO3/c10-7-5-3-1-2-4-6(5)8(11)9(7)12/h1-4,12H
InchiKey: CFMZSMGAMPBRBE-UHFFFAOYSA-N
Formula: C8H5NO3
SMILES: O=C1c2ccccc2C(=O)N1O
Mol. weight [g/mol]: 163.13

Physical Properties

Property code	Value	Unit	Source
hf	-269.74	kJ/mol	Cheméo Relay (1.0)
ie	9.71	eV	Cheméo Relay (1.0)
log10ws	-1.53		Cheméo Relay (1.0)
logp	0.672		Crippen Method
mcvol	107.950	ml/mol	McGowan Method
pc	4845.25	kPa	Cheméo Relay (1.0, beta)
tb	579.57	K	Cheméo Relay (1.0)
tc	895.19	K	Cheméo Relay (1.0)
tf	444.27	K	Cheméo Relay (1.0)
vc	0.417	m3/kmol	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0, beta):

Solubility of N-Hydroxyphthalimide in Binary Acetic Acid + Water Solvent Mixtures at (293.2 to 363.2) K: https://www.doi.org/10.1021/je600579s

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):

Legend

hf:	Enthalpy of formation at standard conditions
ie:	Ionization energy
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
tf:	Normal melting (fusion) point
vc:	Critical Volume