N-Phenylmaleamic acid

Other names:	Maleanilic acid
	4-Oxo-4-phenylamino-2-butenoic acid
	2-Butenoic acid, 4-oxo-4-(phenylamino)-, (Z)-
	Maleamic acid, N-phenyl-
	Maleanilinic acid
	Maleic acid monoanilide
	4-oxo-4-(phenylamino)isocrotonic acid
Inchi:	InChI=1S/C10H9NO3/c12-9(6-7-10(13)14)11-8-4-2-1-3-5-8/h1-7H,(H,11,12)(H,13,14)/b7-
InchiKey:	WHZLCOICKHIPRL-SREVYHEPSA-N
Formula:	C10H9NO3
SMILES:	O=C(O)C=CC(O)=Nc1ccccc1
Mol. weight [g/mol]:	191.18
CAS:	555-59-9

Physical Properties

Property code	Value	Unit	Source
hf	-240.59	kJ/mol	Joback Method
hvap	83.59	kJ/mol	Joback Method
log10ws	-1.65		Crippen Method
logp	1.915		Crippen Method
mcvol	142.690	ml/mol	McGowan Method
pc	3682.02	kPa	Joback Method
tb	773.83	K	Joback Method
tc	985.62	K	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C555599&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
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