2-HYDROXYBENZIMIDAZOLE

Other names:	2-Benzimidazolinone
	2-Benzimidazolol
	2-Benzimidazolone
	2(3H)-Benzimidazolone
	1,3-Dihydro-2H-benzimidazol-2-one
	2-Hydroxybenzimidazole
	N,N'-(1,2-Phenyleneurea)
	o-Phenyleneurea
	Urea, N,N'-(1,2-phenylene)-
	Benzamidazole-2(3H)-one
	2-Oxobenzimidazole
	2(3H)-Oxobenzimidazole
	2-Hydroxy-1H-benzimidazole
	NSC 10383
	NSC 178108
Inchi:	InChI=1S/C7H6N2O/c10-7-8-5-3-1-2-4-6(5)9-7/h1-4H,(H2,8,9,10)
InchiKey:	SILNNFMWIMZVEQ-UHFFFAOYSA-N
Formula:	C7H6N2O
SMILES:	O=c1[nH]c2ccccc2[nH]1
Mol. weight [g/mol]:	134.14

Physical Properties

Property code	Value	Unit	Source
chs	-3527.50 ± 3.20	kJ/mol	NIST Webbook
hf	-39.84	kJ/mol	Cheméo Relay (1.0)
hfs	-85.10 ± 3.20	kJ/mol	NIST Webbook
hsub	126.40 ± 2.40	kJ/mol	NIST Webbook
ie	8.10	eV	Cheméo Relay (1.0)
log10ws	-1.83		Cheméo Relay (1.0)
logp	-0.108		Crippen Method
mcvol	96.400	ml/mol	McGowan Method
pc	6164.75	kPa	Cheméo Relay (1.0, beta)
tb	594.25	K	Cheméo Relay (1.0)
tc	869.75	K	Cheméo Relay (1.0)
tf	527.66	K	Cheméo Relay (1.0)
vc	0.351	m3/kmol	Cheméo Relay (1.0)

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C615167&Units=SI
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):	

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation 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