

Histidine

Other names:	(S)-.alpha.-amino-1H-imidazole-4-propanoic acid (S)-4-(2-amino-2-carboxyethyl)imidazole (S)-histidine 1H-Imidazole-4-propanoic acid, «alpha»-amino-, (S)- 1H-Imidazole-4-propanoic acid, Â«alphaÂ»-amino-, (S)- 4-(2-Amino-2-carboxyethyl)imidazole Anti-rheuma D-histidine Glyoxaline-5-alanine Histidine, L- L-(-)-Histidine L-Histidine
Inchi:	InChI=1S/C6H9N3O2/c7-5(6(10)11)1-4-2-8-3-9-4/h2-3,5H,1,7H2,(H,8,9)(H,10,11)/t5-m/1
InchiKey:	HNDVDQJJCIGZPNO-RXMQYKEDSA-N
Formula:	C6H9N3O2
SMILES:	NC(Cc1c[nH]cn1)C(=O)O
Mol. weight [g/mol]:	155.15
CAS:	71-00-1

Physical Properties

Property code	Value	Unit	Source
affp	979.10	kJ/mol	NIST Webbook
affp	988.40 ± 5.40	kJ/mol	NIST Webbook
affp	996.00 ± 2.80	kJ/mol	NIST Webbook
affp	988.00	kJ/mol	NIST Webbook
basg	941.10 ± 5.40	kJ/mol	NIST Webbook
basg	952.60 ± 3.20	kJ/mol	NIST Webbook
basg	950.20	kJ/mol	NIST Webbook
chs	-3180.60 ± 2.30	kJ/mol	NIST Webbook
chs	-3205.50 ± 2.50	kJ/mol	NIST Webbook
ep	-37.00 ± 5.00	J/molxK	NIST Webbook
hfs	-466.70 ± 2.80	kJ/mol	NIST Webbook
hfs	-441.80 ± 2.60	kJ/mol	NIST Webbook
log10ws	-0.53		Aqueous Solubility Prediction Method
logp	-1.118		Crippen Method
mcvol	113.320	ml/mol	McGowan Method

affp:	Proton affinity
basg:	Gas basicity
chs:	Standard solid enthalpy of combustion
ep:	Protonation entropy at 298K
hfs:	Solid phase enthalpy of formation at standard conditions
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

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