

Guanosine

Other names:	Guanine, 9«beta»-d-ribofuranosyl- «beta»-D-Ribofuranoside, guanine-9 Guanozin Guo Inosine, 2-amino- Vernine 2-Amino-1,9-dihydro-9«beta»-d-ribofuranosyl-6H-purin-6-one 6H-Purin-6-one, 2-amino-1,9-dihydro-9-«beta»-D-ribofuranosyl- Guanine riboside Guanine-9-«beta»-D-ribofuranoside Ribofuranoside, guanine-9, «beta»-D- USAF CB-11 2(3H)-Imino-9-«beta»-D-ribofuranosyl-9H-purin-6(1H)-one 9-«beta»-D-ribofuranosylguanine dl-Guanosine NSC 19994 Guanosine, anhydrous
Inchi:	InChI=1S/C10H13N5O5/c11-10-13-7-4(8(19)14-10)12-2-15(7)9-6(18)5(17)3(1-16)20-9/h
InchiKey:	NYHBQMYGNKIUIF-UUOKFMHZSA-N
Formula:	C10H13N5O2
SMILES:	<chem>Nc1nc2c(ncn2C2OC(CO)C(O)C2O)c(=O)[nH]1</chem>
Mol. weight [g/mol]:	235.24
CAS:	118-00-3

Physical Properties

Property code	Value	Unit	Source
affp	993.40	kJ/mol	NIST Webbook
basg	960.90	kJ/mol	NIST Webbook
log10ws	-0.17		Crippen Method
logp	-3.169		Crippen Method
mcvol	181.230	ml/mol	McGowan Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C118003&Units=SI>

Legend

affp: Proton affinity
basg: Gas basicity
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume

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