Guanosine, 2'-deoxy-

Other names:	Deoxyguanosine
	Guanine deoxyriboside
	Guanine, 9-(2-deoxy-«beta»-D-erythro-pentofuranosyl)-
	NSC 22837
	2'-Deoxyguanosine
	Desoxyguanosine
	Guanine deoxy nucleoside
	2-Deoxyguanosine
	9H-Purin-6-ol, 2-amino-9-(2-deoxy-9-«beta»-D-ribofuranosyl)-
Inchi:	InChI=1S/C10H13N5O4/c11-10-13-8-7(9(18)14-10)12-3-15(8)6-1-4(17)5(2-16)19-6/h3-6,
InchiKey:	YKBGVTZYEHREMT-UHFFFAOYSA-N
Formula:	C10H13N5O4
SMILES:	Nc1nc(=O)c2ncn(C3CC(O)C(CO)O3)c2[nH]1
Mol. weight [g/mol]:	267.24
CAS:	961-07-9

Physical Properties

Property code	Value	Unit	Source
affp	995.40	kJ/mol	NIST Webbook
basg	962.90	kJ/mol	NIST Webbook
log10ws	-0.79		Crippen Method
logp	-2.139		Crippen Method
mcvol	175.360	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C961079&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