2'-DEOXYGUANOSINE

Other names:	2-Deoxyguanosine
	2-amino-9-((2R,4S,5R)-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-1,9-dihydro-6H-
	9H-Purin-6-ol, 2-amino-9-(2-deoxy-9-«beta»-D-ribofuranosyl)-
	Deoxyguanosine
	Desoxyguanosine
	Guanine deoxy nucleoside
	Guanine deoxyriboside
	Guanine, 9-(2-deoxy-«beta»-D-erythro-pentofuranosyl)-
	NSC 22837
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)c2n1
Mol. weight [g/mol]:	267.24

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.29		Cheméo Relay (1.0)
logp	-1.245		Crippen Method
mcvol	175.360	ml/mol	McGowan Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Cheméo Relay (1.0, beta):	
Volumetric interaction coefficients for some nucleosides in aqueous solution at T = 298.15 K:	https://www.doi.org/10.1016/j.jct.2012.12.014
Volumetric Properties at High Pressures of the Nucleosides Inosine, 2'-Deoxyinosine, and 2'-Deoxyguanosine and the Volumetric Properties of Guanosine Derived Using Group Additivity Methods:	https://www.doi.org/10.1021/je500458e
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Homotactic enthalpic pairwise interactions of four deoxynucleosides (dU, dC, dG, dA) in dimethylformamide (DMF) + water mixtures at 298.15 K:	https://www.doi.org/10.1016/j.tca.2012.09.030
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?Str2File=C961079

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume