Adenosine, 2'-deoxy-

Other names:	9H-Purin-6-amine, 9-(2-deoxy-«beta»-D-ribofuranosyl)- «beta»-D-Erythro-Pentofuranoside, adenine-9 2-deoxy- «beta»-D-Ribofuranose, 1-(6-amino-9H-purin-9-yl)-1,2-dideoxy- Adenine deoxyribonucleoside Adenyldeoxyriboside Deoxyadenosine Desoxyadenosine 2'-Deoxyadenosine 9H-Purin-6-amine, 9-(2-deoxy-«beta»-D-erythro-pentofuranosyl)- Adenine deoxy nucleoside 2-Deoxyadenosine 9-(2-Deoxy-«beta»-D-erythro-pentofuranosyl)adenine Adenine deoxyribose NSC 141848 NSC 143510 NSC 83258
Inchi:	InChI=1S/C10H13N5O3/c11-9-8-10(13-3-12-9)15(4-14-8)7-1-5(17)6(2-16)18-7/h3-7,16-1
InchiKey:	OLXZPDWKRNYJJZ-UHFFFAOYSA-N
Formula:	C10H13N5O3
SMILES:	Nc1ncnc2c1ncn2C1CC(O)C(CO)O1
Mol. weight [g/mol]:	251.24
CAS:	958-09-8

Physical Properties

Property code	Value	Unit	Source
affp	991.50	kJ/mol	NIST Webbook
basg	959.10	kJ/mol	NIST Webbook
ea	0.70 ± 0.10	eV	NIST Webbook
log10ws	-1.92		Crippen Method
logp	-0.951		Crippen Method
mcvol	169.490	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=C958098&Units=SI

Legend

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

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