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Typical Product Specifications & Properties

Oxytetracycline

CAS Number: : 79-57-2

Specifications	Limits
Molecular weight	460.44
SMILES	<chem>C[C@]1(c2cccc(c2C(=O)C3=C([C@]4([C@@H]([C@H]([C@@H]31)O)[C@@H](C(=C(C4=O)C(=O)N)O)N(C)C)O)O)O)O</chem>
InChI	IWVCMVBTMGNXQD-PXOLEDIWSA-N
InChIKey	1S/C22H24N2O9/c1-21(32)7-5-4-6-8(25)9(7)15(26)10-12(21)17(28)13-14(24(2)3)16(27)11(20(23)31)19(30)22(13,33)18(10)29/h4-6,12-14,17,25,27-29,32-33H,1-3H3,(H2,23,31)/t12-,13-,14+,17+,21-,22+/m1/s1
log P (octanol-water)	-0.9
Henry's Law Constant	1.70E-25 atm-m ³ /mole
Atmospheric OH Rate Constant	2.65E-10 cm ³ /molecule-sec
Water solubility	313 mg/L
Vapor Pressure	9.68E-25 mm Hg
pKa Dissociation Constant	3.27
Melting Point	164.5 °C