

# Ceftazidime

**Inchi:** InChI=1S/C22H22N6O7S2/c1-22(2,20(33)34)35-26-13(12-10-37-21(23)24-12)16(29)25-  
**InchiKey:** ORFOPKXBNMVMKC-UHFFFAOYSA-N  
**Formula:** C22H22N6O7S2  
**SMILES:** CC(C)(ON=C(C(=O)NC1C(=O)N2C(C(=O)[O-])=C(C[n+]3cccc3)CSC12)c1csc(N)n1)C(=O)N2  
**Mol. weight [g/mol]:** 546.59

## Physical Properties

Property code	Value	Unit	Source
log10ws	-2.04		Aqueous and cosolvent solubility data for drug-like organic compounds
logp	-1.299		Crippen Method
mcvol	363.770	ml/mol	McGowan Method

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Aqueous and cosolvent solubility data for drug-like organic compounds:** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/>  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

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

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