Ceftazidime

Inchi: InChI=1S/C22H22N6O7S2/c1-22(2,20(33)34)35-26-13(12-10-37-21(23)24-12)16(29)25-1
InchiKey: ORFOPKXBNMVMKC-UHFFFAOYSA-N
Formula: C22H22N6O7S2
SMILES: CC(C)(ON=C(C(=O)NC1C(=O)N2C(C(=O)[O-])=C(C[n+]3ccccc3)CSC12)c1csc(N)n1)C(=
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/ci990307l
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