

Cephalexin Monohydrate(Compacted)

General Properties

Description	White to off- white, Crystalline Powder
Solubility	Slightly soluble in water; practically insoluble in alcohol, in chloroform and in ether
Specific Optical Rotation	+149° to +158°
pH	3.0 – 5.5
Water content	4.0 – 8.0%
Assay	950 – 1030 µg/mg ± 3
Residual Solvent	OK
Any individual impurity	NMT 1.0 %
Total impurities	NMT 5.0 %
Packaging	25 kg in double polyethylene bags in each carton box
Storage	Preserve in tight container store below 30 °C and dry place
Shelf Life	24 months
Bulk density	NLT 0.5
Tapped density	NLT 0.6

IUPAC Name

(6*R*,7*R*)-7-[[*(2R)*-2-Amino-2-phenylacetyl] amino]-3-methyl-8-oxo-5- thia-1-azabicyclo [4.2.0]oct-2-ene-2-carboxylic acid monohydrate

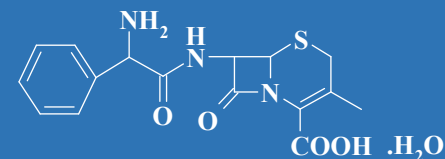
Molecular Weight: 365.41

Molecular Formula: C₁₆H₁₇N₃O₄S. H₂O

Cas registry NO.: 23325 – 78-2

Application: Cephalexin (a first generation cephalosporin antibiotic), is one of the most widely prescribed antibiotics. It is effective against most gram-positive bacteria.

Structure



The reported expanded uncertainty is based on a standard uncertainty multiplied by coverage factor K=2, providing a coverage probability of 95%.

The Referred Material Complies with BP & USP