

Cefixime Trihydrate

Description	White to light yellow, crystalline powder
Solubility	soluble in methanol and in propylene glycol; slightly soluble in alcohol, in acetone, and in glycerin; very slightly soluble in 70% sorbitol and in octanol; practically insoluble in ether, in ethyl acetate, in hexane, and in water.
Specific Optical Rotation	-75 ° to -88 °
pH	2.6 – 4.1
Water content	9.0 -12.0 %
Assay	950 - 1030 µg/mg± 4
Residual Solvent	OK
Each of impurities	NMT 1.0 %
Packaging	20 kg in double polyethylene bags in each carton box
	Preserve in tight container store below 30 °C
Storage	and dry place
Shelf Life	24 months

IUPAC Name: (6R,7R)-7-[[2-(2-amino-1,3-thiazol-4-yl)-2-(carboxymethoxyimino)acetyl] 1-azabicyclo -amino}-3-ethenyl-8-oxo-5-thia [4.2.0]oct-2-ene-2-carboxylic acid, trihydrate

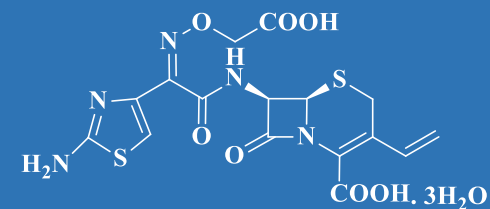
Molecular Weight: 507.50

Molecular Formula: C₁₆H₁₅N₅O₇S₂.3H₂O

Cas registry NO.: 125110-14-7

Application: Cefixime is an antibiotic useful for the treatment of a number of bacterial infections. It is a third generation cephalosporin and highly stable in the presence of beta-lactamase enzymes.

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