

Amoxicillin Trihydrate (Compacted)

Description	White or almost white ,crystalline powder
Solubility	Slightly soluble in water, very slightly soluble in ethanol(96 percent), practically insoluble in fatty oils. It dissolves in dilute acids and dilute solutions of alkali hydroxides.
Specific Optical Rotation	+290° to +315° (anhydrous substance)
Sulfated Ash	Max 1.0 % ± 0.08
Residual Solvent	OK
pH	3.5 to 5.5
Water content	11.5-14.5 %± 0.1
Assay	95.0 to 102.0 % ± 0.3
Each of impurities	≤ 1.0 %
Packaging	20 kg in double polyethylene bags in each carton box
Storage	Preserve in tight container store below 30°C and dry place
Shelf Life	36 months
Bulk density	NLT 0.5
Tapped density	NLT 0.6

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

IUPAC Name: (2S,5R,6R)-6-[[[(2R)-2-amino-2-(4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]-heptane-2-carboxylic acid, trihydrate

Molecular Weight: 419.46

Molecular Formula: C₁₆H₁₉N₃O₅S.3H₂O

Cas registry NO.: 61336-70-7

Application: Amoxicillin is a moderate-spectrum antibiotic active against a wide range of Gram-positive, and a limited range of Gram-negative organisms. It is usually the drug of choice within the class because it is better absorbed, following oral administration, than other beta-lactam antibiotics.

Structure

