

Product Specification

Product Name	Ampicillin trihydrate, Ph. Eur. grade
Glentham Code	GA0211
CAS Number	7177-48-2
EINECS	200-709-7
MDL Number	MFCD00072036
Additional CAS	69-53-4 (anhydrous)

Molecular Weight	403.45
Molecular Formula	$C_{16}H_{19}N_3O_4S \cdot 3H_2O$
Storage Temp.	+4°C



Property	Specification
Physical Description	White or almost white crystalline powder
Identification (IR)	To conform to standard
Identification (TLC)	To pass test
Identification	To pass test C
Appearance of Solution	1g + 10ml 1M HCl: colour ≤ Ref. Sus. II 1g + 10ml: 2M NH4OH: colour ≤ Ref. Sus. II
pH (0.25% in water)	3.5 - 5.5
Specific Optical Rotation	+280 - +305 ° (62.5mg in 25ml water, anhy.)
Related Substances (HPLC)	≤ 1.0% (any impurity)
Water	12.0 - 15.0 %
Sulphated Ash	≤ 0.5%
Assay (HPLC)	96.0 - 102.0 % (anhydrous basis)
Pharmacopoeia Specification(s)	Ph. Eur.

Specification Version	- v1.0
Date Created	- 2020-03-10

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