

Product Datasheet

GP0953 - Penicillin G sodium salt,

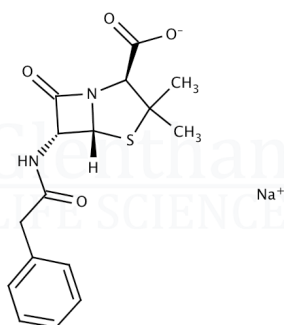
Ph. Eur. grade

Product Details

Product Name	Penicillin G sodium salt, Ph. Eur. grade
Glenthams Code	GP0953
CAS Number	69-57-8
EINECS	200-710-2
Numéro MDL	MFCD00069666
CAS supplémentaire	61-33-6 (free acid)
Related Categories	APIs, Antibiotics, Biochemicals, Antimicrobials, Beta-Lactam Antibiotics

Structure

Molecular Weight	: 356.37
Molecular Formula	: C ₁₆ H ₁₇ N ₂ NaO ₄ S



Storage

Recommended storage temperature: +4°C.

Hazards and Transport

Not classified as dangerous for transport.
CLP Classification Skin Sens. 1, Resp. Sens. 1

Signal Word	Danger
Hazard Codes	H317, H334
Precautionary Codes	P342+P311, P280, P261
Pictograms	

Glenthams Product Specification

Physical Description	: White or almost white crystalline powder
Identification	: A, B, C, D according to Ph. Eur.
Solubility (10% in water)	: Clear, colourless solution
pH (10% in water)	: 5.5 - 7.5
Specific Optical Rotation ([α] ₂₀ /D)	: +285 - +310 ° (c=2, water)
Absorbance	: 264nm: 0.80 - 0.88 : 280nm: ≤ 0.10 : 325nm: ≤ 0.10
2-Ethylhexanoic acid	: ≤ 0.5%
Loss on Drying	: ≤ 1.0% (105 °C)
Assay (HPLC)	: 96.0 - 101.0 % (dried basis)
Potency	: ≥ 1645IU/mg (dried basis)
Pharmacopoeia Specification(s)	: Ph. Eur.
Related Substances	: Impurity E: ≤ 2.0% : Impurity F: ≤ 1.0% : Impurity B: ≤ 0.5% : Any other impurity: ≤ 0.2% : Total impurities: ≤ 3.0% : Impurity A: ≤ 0.2% : Impurity C: ≤ 0.2% : Impurity D: ≤ 0.2% : Impurity G: ≤ 0.2% : Impurity H: ≤ 0.2%
Version	: v1.2

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About Penicillin G sodium salt, Ph. Eur. grade

The sodium salt of penicillin G, or benzylpenicillin, a narrow spectrum antibiotic used to treat a number of bacterial infections. The antibiotic acts by inhibiting the cell wall synthesis of bacteria by inhibiting peptidoglycan chain cross-linking.