

Product Datasheet

GP0953 - Penicillin G sodium salt,

Ph. Eur. grade

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



Product Details

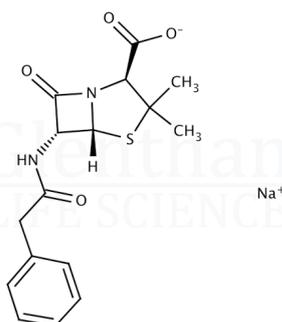
Product Name Penicillin G sodium salt, Ph. Eur. grade
Glentham Code GP0953
CAS Number 69-57-8
EINECS 200-710-2
MDL Number MFCD00069666
Additional CAS 61-33-6 (free acid)
Related Categories APIs, Antibiotics, Biochemicals, Antimicrobials, Beta-Lactam Antibiotics

Glentham 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

Structure

Molecular Weight : 356.37
Molecular Formula : C₁₆H₁₇N₂NaO₄S



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

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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.