

Product Datasheet

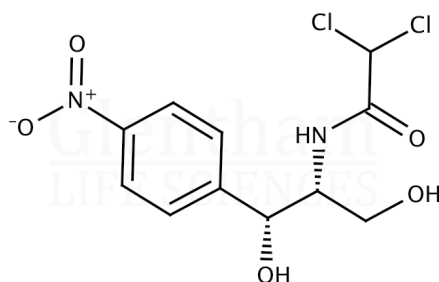
GA0258 - Chloramphenicol

Product Details

| | |
|--------------------|---|
| Product Name | Chloramphenicol |
| Glentham Code | GA0258 |
| CAS Number | 56-75-7 |
| EINECS | 200-287-4 |
| MDL Number | MFCD00078159 |
| PubChem SID | 310269610 |
| Related Categories | APIs, Antibiotics, Biochemicals, Raw Materials (IVD), Reagents for Cell Culture, Cytotoxins, Antimicrobials |

Structure

| | |
|-------------------|----------------------------|
| Molecular Weight | : 323.14 |
| Molecular Formula | : $C_{11}H_{12}Cl_2N_2O_5$ |



Storage

Recommended storage temperature: +4°C.

Hazards and Transport

Not classified as dangerous for transport.

CLP Classification Carc. 1B, STOT RE 2,
Repr. 2, STOT RE 1, Muta.
1B

Signal Word Danger

Hazard Codes H350, H373, H361, H372, H340

Precautionary Codes P281, P308+P313, P260, P270

Pictograms



Glentham Product Specification

| | |
|--|--|
| Physical Description | : White to light-yellow crystalline powder |
| Solubility (5% in ethanol) | : Clear, colourless to light-yellow solution |
| Specific Optical Rotation ([α] _{20/D}) | : +17.5 - +21.0 ° (c=5, ethanol) |
| Melting Point | : 149.0 - 153.0 °C |
| Chloride (Cl) | : ≤ 0.01% |
| Loss on Drying | : ≤ 0.5% |
| Sulphated Ash | : ≤ 0.1% |
| Assay | : 98.5 - 101.5 % (dried basis) |
| Version | : v1.2 |

About Chloramphenicol

Chloramphenicol is a broad-spectrum synthetic antibiotic originally isolated from *Streptomyces venezuelae*. It is effective against gram-positive and gram-negative bacteria. Chloramphenicol acts as a bacteriostatic agent by binding reversibly to the 50S ribosomal subunit, interfering with peptide synthesis. It has applications in antibiotic resistance gene testing, as a selection agent in bacterial cell culture, and as a substrate in the CAT assay.

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