

## Product Datasheet

### GA0505 - Chloramphenicol, USP grade

Pictograms

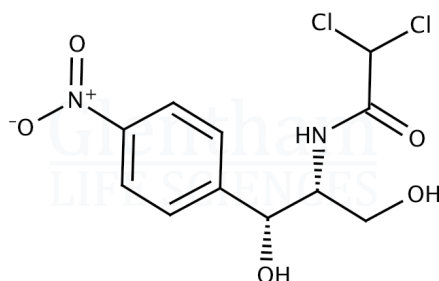


#### Product Details

|                |                            |
|----------------|----------------------------|
| Product Name   | Chloramphenicol, USP grade |
| Glenthams Code | GA0505                     |
| CAS Number     | 56-75-7                    |
| EINECS         | 200-287-4                  |

#### Structure

|                   |   |
|-------------------|---|
| Molecular Weight  | : 323.14  |
| Molecular Formula | : C <sub>11</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>5</sub> |



#### 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: Gefahr

Hazard Codes: H350, H373, H361, H372, H340

Precautionary Codes: P281, P308+P313, P260, P270

#### Glenthams Product Specification

|                                |  |
|--------------------------------|--|
| Physical Description           | : White to light-yellow crystalline powder |
| Identification                 | : A, B according to USP                    |
| Melting Point                  | : 149 - 153 °C                             |
| Specific Optical Rotation      | : +17.0 - +20.0 ° (c=5, ethanol)           |
| Crystallinity                  | : According to USP                         |
| pH (2.5% in water)             | : 4.5 - 7.5                                |
| Organic Impurities             | : ≤ 1.0%                                   |
| Assay                          | : 97.0 - 103.0 %                           |
| Pharmacopoeia Specification(s) | : USP                                      |
| Version                        | : v1.0                                     |

#### About Chloramphenicol, USP grade

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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