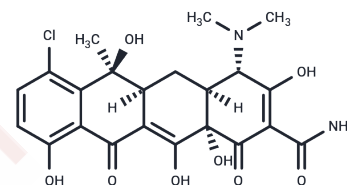


## Chlortetracycline

### Chemical Properties

CAS No. : 57-62-5  
 Formula: C<sub>22</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>8</sub>  
 Molecular Weight: 478.88  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



### Biological Description

|               |  |
|---------------|--|
| Description   | Chlortetracycline is a broad-spectrum antibiotic tetracycline with a 7-chloro substitution. It inhibits growth of both Gram-negative and Gram-positive bacteria by inhibiting protein synthesis. |
| Targets(IC50) | Others,Antibacterial,Antibiotic,Parasite   |

### Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: Soluble,<br>( < 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 2.0882 mL | 10.441 mL | 20.8821 mL |
| 5 mM  | 0.4176 mL | 2.0882 mL | 4.1764 mL  |
| 10 mM | 0.2088 mL | 1.0441 mL | 2.0882 mL  |
| 50 mM | 0.0418 mL | 0.2088 mL | 0.4176 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Chen Z, Wang Y, Wen Q. Effects of chlortetracycline on the fate of multi-antibiotic resistance genes and the microbial community during swine manure composting. Environ Pollut. 2018 Jun;237:977-987. doi: 10.1016/j.envpol.2017.11.009. Epub 2017 Nov 11. PubMed PMID: 29137887.

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