

Copper oxychloride

Chemical Properties

| | | | | |
|-------------------|---|------------------|-----------------|-----------------|
| CAS No. : | 1332-40-7 | | | |
| Formula: | Cl ₂ Cu ₂ H ₃ O ₃ | Cu ²⁺ | OH ⁻ | OH ⁻ |
| Molecular Weight: | 249.01 | | | |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. | Cl ⁻ | Cl ⁻ | |

Biological Description

| | |
|---------------|--|
| Description | Copper oxychloride is an agent of fungicide. |
| Targets(IC50) | Others |

Solubility Information

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

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 4.0159 mL | 20.0795 mL | 40.159 mL |
| 5 mM | 0.8032 mL | 4.0159 mL | 8.0318 mL |
| 10 mM | 0.4016 mL | 2.008 mL | 4.0159 mL |
| 50 mM | 0.0803 mL | 0.4016 mL | 0.8032 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

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- Bayram S, Genc A, Buyukleyla M, Rencuzogullari E. Genotoxicity and cytotoxicity of copper oxychloride in cultured human lymphocytes using cytogenetic and molecular tests. *Cytotechnology.* 2016 Oct;68(5):2027-36. doi: 10.1007/s10616-016-9943-8. Epub 2016 Jan 11. PubMed PMID: 26754841; PubMed Central PMCID: PMC5023576.
- Paradelo M, Pérez-Rodríguez P, Arias-Estévez M, López-Periago JE. Effect of particle size on copper oxychloride transport through saturated sand columns. *J Agric Food Chem.* 2010 Jun 9;58(11):6870-5. doi: 10.1021/jf100367b. PubMed PMID: 20465213.
- Paradelo M, Letzner A, Arias-Estévez M, Garrido-Rodríguez B, López-Periago JE. Influence of soluble copper on the electrokinetic properties and transport of copper oxychloride-based fungicide particles. *J Contam Hydrol.* 2011 Sep 25;126(1-2):37-44. doi: 10.1016/j.jconhyd.2011.06.004. Epub 2011 Jul 2. PubMed PMID: 21783270.

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