

Bathocuproine disulfonate disodium

Chemical Properties

CAS No. :	52698-84-7
Formula:	C ₂₆ H ₁₈ N ₂ Na ₂ O ₆ S ₂
Molecular Weight:	564.54
Storage:	Keep away from direct sunlight, Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Bathocuproine disulfonate disodium (BCS) is an organic compound utilized as a highly sensitive colorimetric reagent for copper ions in biochemical and analytical applications. Its bright yellow color and specific light absorption make it effective for detecting and quantifying trace amounts of copper. In biochemistry, BCS is commonly employed to study the role of copper ions in various biological processes. Copper, being an essential nutrient for many organisms, can be toxic at high concentrations, thus precise measurement is crucial to understanding its impact on living systems. Analytically, BCS is often used for environmental monitoring and assessing copper pollution in water quality testing. It can detect copper even at very low concentrations, making it a valuable tool for identifying potential contamination sources and evaluating the impact of industrial activities on aquatic ecosystems.
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7714 mL	8.8568 mL	17.7135 mL
5 mM	0.3543 mL	1.7714 mL	3.5427 mL
10 mM	0.1771 mL	0.8857 mL	1.7714 mL
50 mM	0.0354 mL	0.1771 mL	0.3543 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.

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