Zinc sulfate heptahydrate

Product Number  Z 4750
Store at Room Temperature
Replacement for Product Code 38,134-9

Product Description
Molecular Formula: ZnSO₄ • 7H₂O
Molecular Weight: 287.5
CAS Number: 7446-20-0
Melting Point: 100 °C
Synonyms: white vitriol, zinc vitriol¹

Zinc sulfate heptahydrate occurs in nature as the mineral goslarite. Zinc sulfate is used in various manufacturing processes, such as calico printing, wood preservation, the production of lithopone, and the bleaching of paper."²

A study of the abscissic acid transduction cascade in Arabidopsis thaliana has used zinc sulfate as an anion channel blocker."² The use of zinc sulfate to investigate the internal speciation of zinc in the roots and leaves of Phaseolus vulgaris has been described."³ Zinc sulfate has been utilized to induce metallothiomin expression in mice."⁴

Several protocols that use zinc sulfate for protein precipitation and analysis by LC/MS have been published."⁵,⁶ A procedure has been reported on the use of zinc sulfate to remove hemoglobin from mammalian tissue cytosol for subsequent study of lipoxygenase activity from biological samples."⁷

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in water (100 mg/ml), yielding a clear, colorless solution. The maximum solubility in water has been reported to be 1 g/0.6 ml."¹ A solution of this product in water has a pH of about 4.5"¹ or higher (up to 5.5)."²

References
1. The Merck Index, 12th ed., Entry# 10293.

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