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Product Information

Ammonium sulfate ACS Reagent

Product Number **A4915**

Store at Room Temperature

Exact replacement for Product Code 22,125-2

Product Description

Molecular Formula: $(\text{NH}_4)_2\text{SO}_4$

Molecular Weight: 132.1

CAS Number: 7783-20-2

This product is designated as ACS Reagent grade and meets the specifications of the American Chemical Society (ACS) for reagent chemicals.

Ammonium sulfate is a widely used reagent in molecular biology and chromatography. Applications include the precipitation and fractionation of proteins,¹ crystallization of proteins^{2,3,4} and of protein-nucleic acid complexes.⁵ Ammonium sulfate is also widely used in HPLC of proteins, such as in hydrophobic interaction chromatography.^{6,7,8}

Ammonium sulfate is also utilized in the purification of antibodies.^{9,10} The use of ammonium sulfate in long PCR buffer, in PCR lysis solution, and in second-strand cDNA synthesis has been reported.¹¹ A protocol for the HPLC analysis of phospholipids using ammonium sulfate has been reported.¹²

Precautions and Disclaimer

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

Preparation Instructions

This product is soluble in water (435 mg/ml, 3.29 M), yielding a clear, colorless solution. Ammonium sulfate saturation charts at 0 °C and 25 °C have been reported.¹³

Storage/Stability

Solutions of ammonium sulfate can be autoclaved.

References

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