Potassium sulfate
ACS Reagent

Product Number 22,349-2
Store at Room Temperature
Exact replacement for Product Number P 4167

Product Description
Molecular Formula: K₂SO₄
Molecular Weight: 174.3
CAS Number: 7778-80-5
Melting Point: 1,067 °C

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

Potassium sulfate is a reagent that is used in various industrial and research applications. Industrial uses include fertilizer production, the manufacture of potassium alum, potassium carbonate, and glass. Analytical applications include the Kjeldahl method for the determination of nitrogen and protein in foodstuffs.

The effect of potassium sulfate on the folding and unfolding of tropomyosin has been investigated. Potassium sulfate has been used in studies on electrostatic effects on pKₐ values of amino acid residues in staphylococcal nuclease. The use of potassium sulfate for improved protein separation by capillary zone electrophoresis in buffers containing high concentrations of zwitterionic salts has been described. A protocol that incorporates potassium sulfate for the adsorption of immune complexes on agarose derivative adsorbents has been published.

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

Preparation Instructions
This product is soluble in water (66 mg/ml), yielding a clear, colorless solution.

References
1. The Merck Index, 12th ed., Entry# 7845.

GCY/RXR 4/03

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