Potassium sodium tartrate tetrahydrate

Product Number S 2377
Store at Room Temperature

Product Description
Molecular Formula: C₄H₄KNaO₆ • 4H₂O
Molecular Weight: 282.2
CAS Number: 6381-59-5
Melting Point: 70-80 °C
Synonym: sodium potassium tartrate tetrahydrate, Rochelle salt, Seignette salt

Potassium sodium tartrate is a reagent that is used in large scale applications such as the manufacture of mirrors and the control of radio frequencies. Historically, it has been a component of Fehling's solution for the detection of aldehydes. Potassium sodium tartrate may also be prepared in the form of piezoelectric crystals, or crystals which undergo dimensional deformation under the stress of externally applied electric fields, leading to changes in the crystalline structure. Such crystals find application in various electronic appliances.

Potassium sodium tartrate has been commonly used in protein crystallization. A block silver impregnation technique for central nervous systems samples that utilizes potassium sodium tartrate has been described. An electron-cytochemical protocol for the localization of phospho(enol)pyruvate carboxylase in fungal cells has been published. A colorimetric assay for reducing sugars that uses potassium sodium tartrate in conjunction with tetrazolium blue in basic solutions has been reported.

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 pH of aqueous solutions of this product is slightly alkaline, in the pH range 7-8. This product is virtually insoluble in alcohol.

References
1. The Merck Index, 12th ed., Entry# 7840.