Sodium hexanesulfonate

Product Number H5269
Store at Room Temperature

Product Description
Molecular Formula: C₆H₁₃O₃SNa
Molecular Weight: 188.2
CAS Number: 2832-45-3
Synonym: 1-hexanesulfonic acid sodium salt

Sodium hexanesulfonate is a low molecular weight alkylsulfonate that is used as an ion pairing reagent for HPLC and as an anionic surfactant.¹ The anionic sulfonate counterion permits the separation and resolution of positively charged analytes.² Because of its low molecular weight, it will not form micelles in solution and therefore has no CMC value.³

Sodium hexanesulfonate is utilized in the analysis of small organic compounds, and pharmaceutical products and metabolites by such techniques as HPLC.⁴,⁵,⁶ It has been used in the analysis of catecholamines by a protocol that combines HPLC with on-column fluorogenic derivatization and post-column peroxyoxalate chemiluminescent reaction detection.⁷ Sodium hexanesulfonate has also been utilized as a representative anion for transport in a study of the transport properties of plant mitochondria from potato tubers.⁸

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 slightly hazy solution.

References