Sodium pentanesulfonate
SigmaUltra

Product Number P 8199
Store at Room Temperature

**Product Description**
Molecular Formula: \( \text{C}_5\text{H}_{11}\text{O}_3\text{SNa} \)
Molecular Weight: 174.2
CAS Number: 22767-49-3
Synonym: 1-pentanesulfonic acid sodium salt

Trace elemental analyses have been performed on the SigmaUltra sodium pentanesulfonate. The Certificate of Analysis provides lot-specific results. SigmaUltra sodium pentanesulfonate is for applications which require tight control of elemental content.

Sodium pentanesulfonate is used as an ion pairing reagent for HPLC and as an anionic surfactant. The anionic sulfonate counterion permits the separation and resolution of positively charged analytes. Sodium pentanesulfonate is utilized in the analysis of small organic molecular compounds, pharmaceutical products and metabolites, and peptides by such techniques as RP-HPLC and micellar electrokinetic chromatography.

Sonochemical and sonoluminescent studies by EPR and spin-trapping techniques have been reported on various ion-pairing reagents, including sodium pentanesulfonate.

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

**Preparation Instructions**
This product is soluble in water (50 mg/ml), yielding a clear, colorless solution.

**References**