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Sodium acetate

Product Number **S 5889**

Store at Room Temperature

24,124-5 is an exact replacement for S 5889

Product Description

Molecular Formula: $C_2H_3O_2Na$

Molecular Weight: 82.03

CAS Number: 127-09-3

Synonym: Acetic acid, sodium salt

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

Sodium acetate is a widely used reagent in molecular biology applications. In addition to being used as a buffer, it is used in the purification and precipitation of nucleic acids,^{1,2,3} protein crystallization,⁴ staining of gels in protein gel electrophoresis⁵, and HPLC.⁶

Sodium acetate may be used as a substrate for acetokinase (acetate kinase).⁷

Precautions and Disclaimer

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

Preparation Instructions

Sodium acetate is soluble in water (100 mg/ml), yielding a clear, colorless solution. The pH of a 0.1 M aqueous sodium acetate solution at 25 °C is 8.9.⁸

References

1. Evans, J.K., et al., Simultaneous purification of RNA and DNA from liver using sodium acetate precipitation. *Biotechniques*, **24**, 416-418 (1998).
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3. Wallace, D.M., Large- and small-scale phenol extractions. *Methods Enzymol.*, **152**, 33-41 (1987).
4. Baniecki, M.L., et al., Adenovirus proteinase: crystallization and preliminary X-ray diffraction studies to atomic resolution. *Acta Crystallogr. D Biol. Crystallogr.*, **58**, 1462-1464 (2002).
5. Bjellqvist, B., et al., A nonlinear wide-range immobilized pH gradient for two-dimensional electrophoresis and its definition in a relevant pH scale. *Electrophoresis*, **14**, 1357-1365 (1993).
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7. Rose, I., Acetate Kinase of Bacteria (Acetokinase). *Meth. Enzymol.*, **1**, 591-595 (1955).
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