

Product Information

Sodium acetate

Product Number **S 2889**

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 Molecular Biology grade and is suitable for molecular biology applications. It has been analyzed for the presence of nucleases and proteases.

Sodium acetate is a widely used reagent in molecular biology applications. It is used as a buffer in conjunction with acetic acid, in the buffering range of pH 3.6 - 5.6. Sodium acetate is used in the purification and precipitation of nucleic acids,^{1,2,3} protein crystallization,⁴ staining of gels in protein gel electrophoresis,⁵ and HPLC.⁶ Large scale applications of sodium acetate include its use as a retardant in plastics manufacturing,⁷ as a mordant in dyeing, and in the tanning of leather.

A DNA microarray study of *E. coli* response to different levels of sodium acetate has been reported.⁸ Protein unfolding during reversed phase chromatography in the presence of varying salts, including sodium acetate, at different ionic strengths has been investigated.⁹ Sodium acetate has been used in conjunction with sodium carbonate to enhance the activation of freeze-dried subtilisin Carlsberg in organic solvents.¹⁰

Sodium acetate may be used as a substrate for acetokinase (acetate kinase).¹¹

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

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