



Product Information

Sodium acetate

Product Number **S 3272**
Store at Room Temperature

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 Electrophoresis grade and has been tested for use in electrophoresis buffer systems.

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.⁷

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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