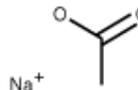


71188 Sodium acetate Trihydrate (Acetic acid Sodium salt)

CAS number: 6131-90-4

Product Description:

Appearance: Clear colorless to very faint yellow liquid
Molecular formula: $\text{CH}_3\text{COONa} \cdot 3 \text{H}_2\text{O}$
Formula weight: 136.08 g/mol
Solubility: 3 M in H_2O , 20 °C, complete, colorless
pH: 8.5-10.0 (3 M in H_2O , 25 °C)



This product designated as BioChemika Ultra grade is suitable for different applications like purification, precipitation, crystallisation and other applications which require tight control of elemental content. Trace elemental analyses have been performed. The Certificate of Analysis provides lot-specific results.

Applications:

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, 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; EC 2.7.2.1).¹¹

Preparation Instructions

Sodium acetate is soluble in water (3 mol/l), yielding a clear, colorless solution. The pH of a 0.1 M aqueous sodium acetate solution at 25 °C is 8.^{9,8}

Precautions and Disclaimer

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

References:

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