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## Product Information

### Ammonium acetate

Product Number **A7262**  
Storage Temperature 2-8 °C

#### Product Description

Molecular Formula: C<sub>2</sub>H<sub>7</sub>NO<sub>2</sub>  
Molecular Weight: 77.08  
CAS Number: 631-61-8

Ammonium acetate is a widely used reagent in molecular biology and chromatography. Its applications include the purification and precipitation of DNA<sup>1,2,3</sup> and protein crystallization.<sup>4</sup>

Ammonium acetate is commonly used in HPLC and MS analysis of various compounds, such as oligosaccharides,<sup>5</sup> proteins,<sup>6</sup> and peptides.<sup>7</sup> A procedure for the nonaqueous capillary electrophoresis-mass spectrometry (NACE-MS) of lipophilic peptides and therapeutic drugs using ammonium acetate has been reported.<sup>8</sup>

#### Precautions and Disclaimer

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

#### Preparation Instructions

This product is soluble in water (570 mg/ml), yielding a clear, colorless solution.

#### References

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3. Molecular Cloning: A Laboratory Manual, 3rd ed., Sambrook, J., and Russell, D. W., CSHL Press (Cold Spring Harbor, NY: 2001), pp. 10.20-10.21, A8.12.
4. Shilton, B. H., et al., Crystallization of a soluble form of the Kex1p serine carboxypeptidase from *Saccharomyces cerevisiae*. *Protein Sci.*, **5(2)**, 395-397 (1996).
5. Barroso, R., et al., On-line high-performance liquid chromatography/mass spectrometric characterization of native oligosaccharides from glycoproteins. *Rapid Commun. Mass Spectrom.*, **16(13)**, 1320-1329 (2002).
6. Troxler, H., et al., Electrospray ionization mass spectrometry: analysis of the Ca<sup>2+</sup>-binding properties of human recombinant alpha-parvalbumin and nine mutant proteins. *Anal. Biochem.*, **268(1)**, 64-71 (1999).
7. Cummings, J., et al., Development of a gradient elution high-performance liquid chromatography assay with ultraviolet detection for the determination in plasma of the anticancer peptide [Arg<sup>6</sup>, D-Trp<sup>7,9</sup>, mePhe<sup>8</sup>]-substance P (6-11) (antagonist G), its major metabolites and a C-terminal pyrene-labelled conjugate. *J. Chromatogr. B. Biomed. Sci. Appl.*, **732(2)**, 277-285 (1999).
8. Yang, Q., et al., Analysis of lipophilic peptides and therapeutic drugs: on-line-nonaqueous capillary electrophoresis-mass spectrometry. *J. Biochem. Biophys. Methods*, **38(2)**, 103-121 (1999).

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