



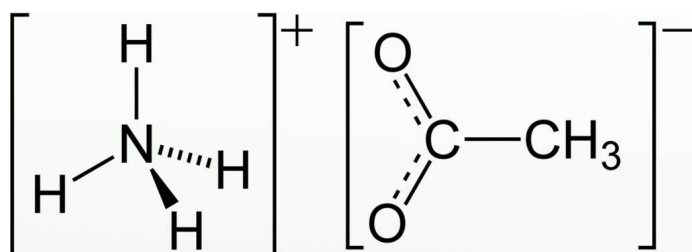
# Ammonium Acetate 60%

## HARCROS

### General

Ammonium Acetate 60%, also known as the Spirit of Mindererus, is a chemical compound with the formula  $\text{NH}_4\text{CH}_3\text{CO}_2$ . Ammonium Acetate is derived from the reaction of anhydrous ammonia and acetic acid.

### Structure:



CAS# 631-61-8

### Applications: Buffering Agent

- As the salt of a weak acid and a weak base, Ammonium Acetate is used with acetic acid to create a buffer solution for mass spectrometry and HPLC

### Applications: Precursor

- Ammonium Acetate is the main precursor for the production of acetamide compounds:  
 $\text{NH}_4\text{CH}_3\text{CO}_2 \rightarrow \text{CH}_3\text{C}(\text{O})\text{NH}_2 + \text{H}_2\text{O}$

### Applications: Rubber Latex Production

- Ammonium Acetate is used as a gelling or foaming agent, which serves to trap air bubbles within the latex while it is being set.

### Applications: Agricultural Chemistry

- Ammonium Acetate is used as a reagent for the determination of soil Cation Exchange Capacity.
- Ammonium Acetate is used in the determination of available potassium in soil, the ammonium ion acts as a replacement cation.

### Applications: Catalyst

- Ammonium Acetate is used as a catalyst in Knoevenagel condensation reactions and as a source of ammonia in the Borch reaction in organic synthesis.

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