



ACETIC ACID

Key features

- Clear, colorless liquid with an acrid taste and vinegarlike odor
- Miscible in all proportions with water, ethyl alcohol and ether
- Key raw material for the production of VAM, acetate esters, acetic anhydride, monochloroacetic acid, terephthalic acid and a wide range of industrial synthesis

Product description

Acetic acid is a clear, colorless, organic liquid that, when undiluted, is also called glacial acetic acid. **Acetic acid** is the main component of vinegar and has a distinctive sour taste and pungent smell.

Liquid **Acetic acid** is a hydrophilic solvent, similar to ethanol. With a moderate relative static permittivity, it dissolves not only polar compounds, but also non-polar compounds such as oils and elements such as sulfur and iodine. It readily mixes with other polar and non-polar solvents such as water, chloroform and hexane.

Applications

Acetic acid is a key raw material for the production of vinyl acetate monomer (VAM), acetic anhydride and the acetate esters. It is used as a reaction promoter in the production of purified terephthalic acid (PTA), which is used to manufacture polyethylene terephthalate (PET). PET is used in synthetic fibers and food contact material, e.g. plastic bottles.

Acetic acid is used as an etchant in electronics fabrication and in a wide range of other industrial processes. **Acetic acid** can also be employed in oil and gas applications as an iron and scale control inhibitor and in oil well stimulation as an acidizer to improve flow.

Acetic acid is also used in food sauces and pharmaceuticals.



Typical Properties
Unit

Molar mass	g/mol	60.05
Boiling point at 1013 hPa	°C	118.1
Freezing point	°C	16.35
Vapor pressure at 20°C at 50°C	hPa hPa	15.7 74.9
Vapor density (air = 1)		2.07
Density at 20°C	g/ml	1.049
Solubility in water at 20°C	g/L	∞
Evaporation rate (n-butyl acetate = 1)		0.97

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