

IS 229:2021- Ethyl Acetate, Specification

Ethyl Acetate (C₂H₅COOCH₃) is a colourless, volatile liquid with a distinctive fruity or sweet smell, commonly used as a solvent with applications ranging from industrial coatings to pharmaceuticals and food products. It is also used in paints as an activator or hardener. Ethyl acetate is present in confectionary, perfumes, and fruits. In perfumes, it evaporates quickly, leaving the scent of the perfume on the skin.

IS 229:2021 prescribes the requirements and methods of sampling and testing for ethyl acetate. The material is used mainly as a solvent by the paint and lacquer industry and also for the manufacture of drugs, cosmetics, and flavouring essences. The standards provide two grades of ethyl acetate based on their end use. Grade-1 is for the manufacture of drugs, cosmetics, and flavouring essences, and Grade-2 is for industrial solvents, mainly in the paint and lacquer industry.

This standard specifies requirements for the ethyl acetate, including its quality, method of sampling, packaging, and packaging & marking. Key specifications include purity, colour, relative density, water and ethyl alcohol content, distillation range, acidity, and residue on evaporation of ethyl acetate. Purity for grade-1 ethyl acetate is 99.5% and for grade-2 is 99%. Similarly, requirements for other parameters are also provided for both grades of ethyl acetate.

These standards help to ensure that **ethyl acetate** is of the right quality for its intended use and is handled safely.