

IS 9834 Specification for iso - Butyl alcohol

Iso-butyl alcohol (C₄H₁₀O) is a colourless, flammable liquid with a mild odour, commonly used as a solvent, plasticizer, and intermediate in chemical synthesis. It is a branched-chain alcohol and isomeric with n-butyl alcohol. Iso-butyl alcohol is significant in industrial applications, including the production of esters, paints, coatings, and as a fuel additive.

It also plays a role in the manufacture of perfumes, pharmaceuticals, and agricultural chemicals. Its low toxicity and effective solvency properties make it valuable in various formulations. Additionally, it is utilized in the production of isobutyl acetate, an important solvent in the food and fragrance industries.

BIS had published IS 9834 in 1981 which has been reviewed in 2018. The standard prescribes requirements and methods of sampling and test for iso-butyl alcohol for industrial purposes. Requirements for characteristics such as colour, relative density, distillation range, residue on evaporation, acidity and water content has been given. The evaporation rate of iso-butyl alcohol is slightly higher than that of normal butyl alcohol and it is used as such or in conjunction with normal butyl alcohol in the surface coating industry.