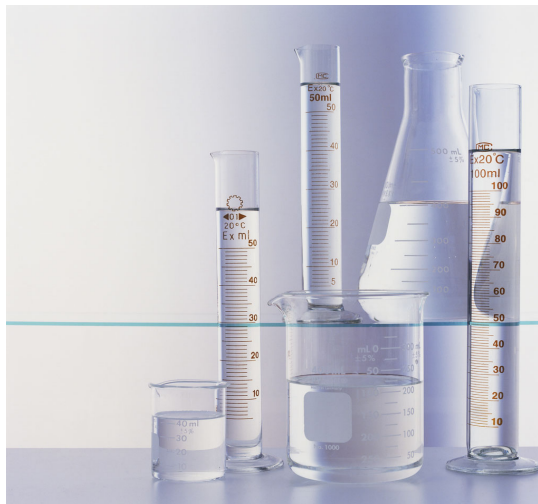




Ethanol for the Personal Care Industry

**Description:**

A clear colorless liquid with a sweet smell, ethanol is an ideal solvent in personal care applications. In addition to its solvency power, ethanol can be used as a preservative or an intermediate in personal care applications. The evaporative properties of ethanol impart a cool feel to the skin and provide quick delivery of items, such as polymers, for applications like skin and body care, as well as hair care.

Physical Properties:

CAS Number	64-17-5
Formula Weight	46.07
Boiling Point (°C)	78.3
Melting Point (°C)	-115
Density (20/20°C)	0.785
Flash Point (°C/°F).....	8 (48)
Refractive Index (20°C).....	1.3614
Dielectric Constant.....	24.3
Evaporation Rate (nBuAc=100) ..	170

Industrial Applications:

- Coatings
- Fuel
- Printing Inks
- Solvents
- Varnish
- Pharmaceuticals
- Adhesives
- Plastics
- Detergents

Personal Care Applications:**Fragrances, Colognes, Body Splashes & Sprays**

Denatured ethanol is typically used as a carrier for perfume oils found in fragrances and colognes. Water is commonly used in conjunction with ethanol to help modify the fragrance intensity and to ease skin application.

Hairspray

The most commonly used solvent in hairspray is denatured ethanol. The solvency power of ethanol and its quick evaporation rate make it an ideal solvent in this application.

Preservatives

Ethanol can be used as an antibacterial agent in mouthwashes, nail enamel, and astringents.

Which product is right for you?

The formula (the proof and the denaturants added to the ethanol) that is right for you is dependent on your process and product. Please contact your Ideal sales rep to discuss the right product for your needs.

Ethanol Facts:

- Ethanol is derived either through a fermentation method (derived from grain -usually corn or wheat) or a synthetic method (derived by hydrating ethylene). Synthetic and fermentation ethanol are technically the same finished product, both meeting U.S.P specifications.
- Ethanol sales are regulated by the Bureau of Alcohol Tobacco & Firearms (ATF) and the Tax & Trade Bureau (TTB).
- While pure ethanol can be purchased, specially denatured alcohols (SDA) are the most common product sold within the industrial and personal care markets. An SDA is a pure ethanol that has had a denaturant added to make the alcohol unfit for beverage use. All SDA formulations are regulated by TTB and require a permit to purchase.
- Special Industrial Solvents are ethanol formulations that have more denaturants than SDA's and the denaturants cannot be distilled out. Special Industrial Solvents **do not** require a permit for purchase.
- Proof of Ethyl Alcohol is based on water content. Ethyl Alcohol, 200 Proof is virtually water free or 100% alcohol, while Ethyl Alcohol, 190 Proof has 95% alcohol by volume with the balance being water.
- **Many Isopropanol users are able to switch to a SDA product, realizing large savings based on current IPA prices.**

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