

Green Biologics Isopropanol (Isopropyl Alcohol)

Description/Applications:

Isopropanol is a colorless, flammable liquid with a characteristic alcoholic odor. It is completely miscible with most solvents, including water, and is a suitable solvent for acrylic and epoxy resins, ethyl cellulose, natural resins, gums, polyvinyl butyral, alkaloids and some essential oils. Additional principal end uses of IPA include printing inks, coatings, coolant, extractant, deicing, organic synthesis, industrial solvent, electronics cleaner, personal care products and pharmaceuticals.

Typical Physical Properties of IPA (CAS#: 67-63-0)

Molecular Weight	60.09 g/mol	Empirical Formula	C ₃ H ₈ O
Appearance:	Colorless Liquid	Freezing Point	-88.5°C (-123.7°F)
Boiling Point @ 760mm Hg	82.2°C (180.0°F)	Flash Point – Closed Cup	12°C (53°F)
Autoignition Temperature	425°C	Density @ 20°C	0.787 kg/L 6.57 lb/gal
Vapor Pressure @ 20°C	4.1 kPa	Solubility in Water @ 20°C	Miscible
Surface Tension @ 20°C	23 mN/m	Refractive Index @ 20°C	1.376
Viscosity @ 20°C	2.4 c	Lower Explosive Limit	2 v/v%
Upper Explosive Limit	12 v/v%	Odor Threshold	22 ppm
Evaporation Rate (nBuAc = 1)	1.5		

Health and Toxicity:

Under current U.S. OSHA's Hazardous Communication program IPA is classified as a flammable liquid and can cause serious eye irritation. Keep the material away from heat sources, hot surfaces, open flames, and sparks.

Observe good industrial hygiene practices and use appropriate Personal Protective Equipment.

For full safety information please refer to the Safety Data Sheet.

Storage and Handling:

General industry practice is to store IPA in carbon steel vessels. This product may absorb water if exposed to air. Avoid contact with air when storing for long periods of time. Anhydrous IPA can form peroxides in the presence of air.

IPA should be stored only in tightly closed, properly vented containers away from heat, sparks, open flame or strong oxidizing agents. Use only non-sparking tools. Containers should be grounded before beginning transfer. Electrical equipment should conform to national electric code. Handle empty containers carefully. Combustible residue remains after emptying.

Provided proper storage and handling precautions are taken, IPA is stable for at least 24 months from the date of manufacture.

IPA that is subsequently repackaged, handled and/or delivered by third parties may have a different shelf life and may require third party shelf life studies. Note: Consult the Safety Data Sheet for further safety and handling guidelines for this product.