

Technical Data

Isopropyl Alcohol (Anhydrous)

Description Isopropyl alcohol (anhydrous)* is a bright, clear, colorless and bitter tasting liquid with excellent solvent and extraction characteristics and antiseptic and disinfectant properties.

Synonyms: Isopropanol, 2-propanol, secondary propyl alcohol

Product Specifications

Characteristic	Nominal Value (Sales Specification)	ASTM Method
Purity, Vol %	99.8 min.	*GC
Water, Wt %	0.1 max	D-1364
Color, Pt-Co	5 max	D-1209
Non-volatile matter (g/100 mL)	0.001 max	D-1353
Water miscibility @ 20°C	Passes	D-1722
Specific gravity, 20/20°C	0.7862-0.7870	D-268
Appearance	Bright/clear	Visual
Distillation range, °C	1° including 82.3°	D-1078
Initial boiling point, °C	81.3 min	
Dry point	83.0 max	

*Lyondell Chemical Company test method

Properties

Formula weight	60.10
Wt/gallon, lbs @ 68°F	6.56
Refractive index, n_D	1.3772
Viscosity cps @ 20°C	2.4

Flammability

Flash point, Tag Closed Cup, °F	53
Flammable limits by volume in air:	
Lower limit	2.0
Upper limit	12.0

* Lyondell's isopropyl alcohol (anhydrous) is a non-USP grade material.

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Applications

Cleaners/degreasers	Hand wipes, inks, surface preparation
Pharmaceuticals*	Rubbing alcohol, antiseptic, disinfectants
Protective coatings	Solvent for nitrocellulose lacquers, shellac, varnish
Motor fuels	Additive blending agent
Antifreeze	De-icing, antistalling
Cosmetics	Solvent for perfume oils, soaps, detergents, lotions
Printing inks	

Safety and Handling

Isopropyl alcohol (anhydrous) is **EXTREMELY FLAMMABLE**. Keep it away from heat, sparks, open flame, other ignition sources or oxidizing conditions. A release may cause immediate fire/explosion hazard. Liquids/vapors may ignite. Extinguish all ignition sources. All equipment used to handle this product must be grounded.

Avoid substances such as strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids and isocyanates. Isopropyl alcohol (anhydrous) is slightly irritating to skin and moderately to severely irritating to eye.

More detailed safety and disposal information on our products is contained in the Material Safety Data Sheet (MSDS). All users of our products are urged to retain and use the MSDS. You may request a copy by going to our web site: www.lyondell.com. You can also obtain an MSDS through our MSDS Hotline at (800) 700-0946 (toll-free – U.S. and Canada) or (713) 309-7513 (all other regions).

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This information is believed to be accurate as of the date of publication. It is the sole responsibility of the customer to determine whether the product is appropriate and suitable for the customer's specific use. Specific end uses may require approval by appropriate regulatory agencies. Lyondell Chemical Company makes no warranties, express or implied, regarding the product or information contained therein. The applicable Material Safety Data Sheet should be reviewed by customer before handling the Lyondell Chemical product. Lyondell Chemical Company disclaims any liability for infringement of any patent by reason of customer's use of any Lyondell Chemical Company products in combination with other materials or in any process.

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