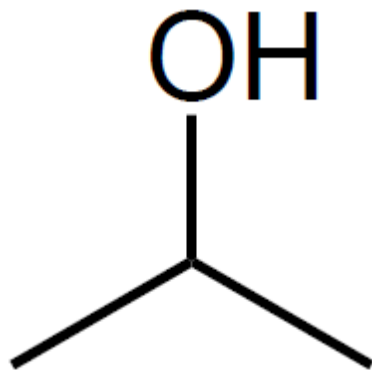


## Isopropyl Alcohol (IPA)



**Isopropyl Alcohol (IPA)** is a clear, colorless liquid alcohol with a characteristic alcoholic odor. The principal end uses of IPA include printing inks, coatings, coolant, deicing, organic synthesis, industrial solvent, electronics cleaner, personal care products and pharmaceuticals. Available in technical grade and USP grade.

### CAS number

67-63-0

### Synonyms

2-Hydroxypropane; 2-Propyl alcohol; 2-Propanol; Isopropanol; Propan-2-ol

### Product code

40769; 40941

### Typical Physical Properties of IPA

Molecular Weight	60.09 g/mol
Empirical Formula	C <sub>3</sub> H <sub>8</sub> 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 cP
Lower Explosive Limit	2 v/v%
Upper Explosive Limit	12 v/v%
Heat of Vaporization @ normal boiling point	664 kJ/kg
Heat of Combustion (net) @ 25°C	31000
Odor Threshold	22 ppm
Evaporation Rate (nBuAc = 1)	1.5
Conductivity @ 20°C	6 μS/m
Dielectric Constant @ 20°C	18.6
Specific Heat @ 20°C	2.6 kJ/kg/°C

Note: The properties reported above are typical physical properties. Monument Chemical in no way guarantees that the product from any particular lot will conform exactly to the given values.

## Health and safety information

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. Storage in properly lined steel or stainless steel to avoid slight discoloration from carbon steel is recommended. Product stored or delivered in unlined carbon steel vessels must be filtered due to technically unavoidable particles.

IPA should be stored under a nitrogen blanket when available. 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 manufactured and delivered by Monument Chemical 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. On-going studies of IPA held in glass at ambient temperature are stable for at least two years. Product past the retest date should be evaluated to confirm that all specifications are within their limits before use.

## Additional Information

To learn more about Monument Chemical and the products and services we offer please visit our website at [www.monumentchemical.com](http://www.monumentchemical.com).

Effective Date: 10/29/2021

Revision: 3

## Disclaimers

Please refer to the Safety Data Sheet (SDS) for complete information on Storage and Handling, Toxicological Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an SDS, email [SDS@monumentchemical.com](mailto:SDS@monumentchemical.com). Before using or handling this product, the SDS should be thoroughly reviewed.

Monument Chemical believes the information in this specific product Technical Data Sheet (TDS) is accurate, but makes no representations as to the sufficiency or completeness of the product or information in this TDS and makes no commitment to correct or bring up-to-date any such information and makes no commitment related to the use of the product in combination with other chemicals or as part of any other chemical processes. **MONUMENT CHEMICAL MAKES NO WARRANTY TO THE USER OR RECIPIENT OF ANY PRODUCT FROM MONUMENT CHEMICAL, OR WITH RESPECT TO THE INFORMATION PROVIDED WITH THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE, OR OF NON-INFRINGEMENT OF THIRD PARTY RIGHTS OR PATENTS, WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING OR PERFORMANCE, USAGE OF TRADE OR OTHERWISE.**

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