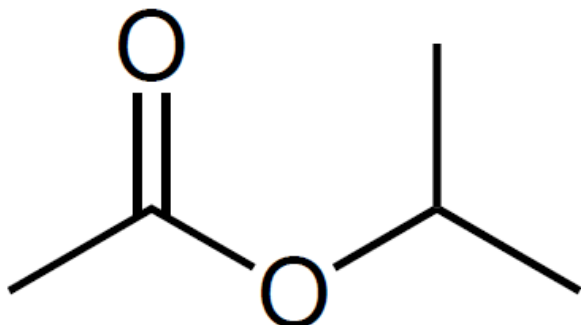


Isopropyl Acetate (IPAc)



Isopropyl Acetate (IPAc) is a clear, colorless liquid ester with a characteristic fruity odor. The principal end uses of IPAc include printing inks, coatings, industrial solvent, cleaners, cosmetics and fragrances.

CAS number

108-21-4

Synonyms

2-Propyl acetate; 1-Methylethyl acetate; Acetic acid, 1-methylethyl ester; Isopropyl ester of acetic acid

Product code

40746

Typical Physical Properties of IPAc

Molecular Weight	102.1 g/mol
Empirical Formula	C ₅ H ₁₀ O ₂
Appearance	Colorless Liquid
Freezing Point	-73°C (-100°F)
Boiling Point @ 760mm Hg	88.6°C (192°F)
Flash Point – Closed Cup	4°C (40°F)
Autoignition Temperature	479°C
Density @ 20°C	0.874 kg/L 7.29 lb/gal
Vapor Pressure @ 20°C	47.5 mmHg
Solubility @ 20°C	
(in Water)	2.9 wt%
(Water in)	1.8 wt%
Surface Tension @ 20°C	22.1 dynes/cm
Refractive Index @ 20°C	1.38
Viscosity @ 20°C	0.6 cP
Lower Explosive Limit	1.8 v/v%
Upper Explosive Limit	7.8 v/v%
Heat of Vaporization @ normal boiling point	7703 cal/g·mol
Heat of Combustion @ 25°C	-635.3 cal/g·mol
Odor Threshold	0.05 to 4.1 ppm
Evaporation Rate (nBuAc = 1)	3

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 IPAc 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 IPAc 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.

IPAc 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. Addition of water can cause Isopropyl Acetate to break down into Isopropanol and Acetic Acid.

IPAc should be stored only in tightly closed, properly vented containers away from heat, sparks, open flame, or strong oxidizing agents. Handle empty containers carefully. Combustible residue remains after emptying.

Provided proper storage and handling precautions are taken, IPAc manufactured and delivered by Monument Chemical is stable for at least 12 months from the date of manufacture. IPAc 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. 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.

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. Before using or handling this product, the SDS should be thoroughly reviewed.

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