

SALES SPECIFICATION

n-Propyl acetate

Quality Attributes

| Test Description | Limits | Test Method |
|-----------------------------------|------------------|-------------|
| Appearance | Colorless Liquid | Visual |
| Ethyl Acetate, weight % | 99.00, min. | GC |
| Water Content, weight % | 0.100, max. | ASTM |
| Acidity, as Acetic Acid, weight % | 0.0100, max. | ASTM |
| Color, Pt-Co | 10, max. | ASTM |
| Specific Gravity @ 20/20 °C | 0.8850 – 0.8900 | ASTM |

Description: n-Propyl acetate (nPAC) is a clear, colorless, highly flammable liquid with a characteristic mild, fruity (pear-like) odor. It is a versatile, fast-evaporating solvent with the formula $C_5H_{10}O_2$, primarily used in printing inks, and paints due to its ability to dissolve a wide range of resins (nitrocellulose, acrylics, alkyds); lubricants and greases, coating products, antifreeze products, perfumes and fragrances, adhesives and sealants, washing and cleaning products, leather treatment products, cosmetics and personal care products, polishes and waxes as well as a flavor component. Highly miscible with most organic solvents (alcohols, ketones, esters, glycols) but only slightly soluble in water.

Reference: internal documents

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This document does not constitute a warranty—express or implied—of fitness for any purpose. The purchaser is solely responsible for determining the suitability of the product for its intended use under all applicable laws and regulations.

- Flammable:** n-Propyl acetate is a flammable liquid that can cause sudden fires or explosions if exposed to ignition conditions. Safe handling: Handle containers with care because residual vapors are flammable. They may release corrosive vapors. Keep in a fireproof area. Store away from direct sunlight, extremely high or low temperatures. Store in stainless steel or carbon steel containers. Keep containers closed when not in use. Fixed containers where these substances are stored should be equipped with pressure relief devices and flame arresters.
- Incompatible materials:** Strong oxidizing agents.
- Possibility of dangerous reactions:** Dangerous polymerization will not occur. Reacts violently with nitrates, strong oxidizers, alkalis, and acids. Increased risk of fire or explosion. Vapors can form explosive mixtures with air.
- Health hazards:** Vapors by inhalation can cause cough, sore throat, headache, and drowsiness. Skin contact can cause irritation, dryness. Eye contact can cause irritation, conjunctivitis. Ingestion can cause nausea, vomiting, dizziness.

PRODUCT DATA SHEET

n-Propyl acetate

n-Propyl acetate (C₅ H₁₀ O₂) is classified as a highly flammable liquid (Class IB) and should be stored in a cool, dry, well-ventilated area away from heat and open flames. It is important to avoid static discharge. It may cause eye, nose, and throat irritation, and vapor inhalation can lead to dizziness or drowsiness. Reactivity with nitrates; strong oxidizers, alkalis, and acids. Dangerous polymerization will not occur. Vapors may form an explosive mixture with air. Avoid release into the environment.

Chemical and Physical Properties

| Property | Value |
|---|---|
| Chemical formula | C ₅ H ₁₀ O ₂ |
| Molecular weight | 102.13 g/mol |
| CAS number | 109-60-4 |
| Appearance | Colorless liquid |
| Odor | Fruity odor (pear-raspberry) |
| Melting point/freezing point | -93°C |
| Boiling point | 101.5°C |
| Lower flammability limit | 2 % |
| Upper flammability limit | 8 % |
| Flash point | 12 °C |
| Auto-ignition temperature | 380 °C |
| Decomposition temperature | Not available |
| pH | 7.000 |
| Kinematic viscosity | 0.58 mPas @20°C |
| Solubility | 18.9 g/L @20°C |
| Partition coefficient n-octanol/water (log value) | Log pow =1.4 |
| Vapor pressure | 25.50 mm Hg @ 37.8°C |
| Density | 0.8880 g/cm ³ |
| Relative vapor density (air =1) | 3.5 |