



## Technical Data Sheet

### Isopropyl Acetate

**Synonyms**

Secondary propyl acetate; acetic acid, isopropyl ester; isopropyl ethanoate

**Chemical Formula**

$(\text{CH}_3)_2\text{CHOC}(\text{O})\text{CH}_3$

**Product Description**

Isopropyl acetate is a colorless liquid with an aromatic fruity odor with moderate solubility in water and a low flash point.

**Applications**

- Coatings
- Cleaning fluids
- Printing inks
- Cosmetic / personal care solvent
- Fragrance solvent

**Sustainability Attribute:****Typical Physical Properties**

| Property                                     | Unit              | Value                  |
|--|-------------------|------------------------|
| Molecular Weight                             | g/mol             | 102.13                 |
| Boiling Point @ 760 mmHg, 1.01 ar            | °C (°F)           | 88.65 (191.6)          |
| Flash Point (Setaflash Closed Cup)           | °C (°F)           | 2.2 (36)               |
| Freezing Point                               | °C (°F)           | -74 (-101)             |
| Vapor Pressure @ 25°C — Extrapolated         | mmHg<br>hPa       | 47 mmHg<br>60.7 hPa    |
| Specific Gravity (20/20°C)                   |                   | 0.872                  |
| Liquid Density @ 20°C                        | g/cm <sup>3</sup> | 0.87                   |
| Vapor Density (air = 1)                      |                   | 3.5                    |
| Viscosity (@ 20°C)                           | cP or mPa•s       | 0.5                    |
| Surface Tension (@ 20°C)                     | dynes/cm or mN/m  | 22.3                   |
| Specific Heat (@ 25°C)                       | J/g/°C            | No test data available |
| Heat of Vaporization at Normal Boiling Point | J/g               | No test data available |
| Net Heat of Combustion — Predicted @ 25°C    | kJ/g              | No test data available |

**Typical Physical Properties:**

This data provided for those properties are typical values, and should not be construed as sales specifications.

## Typical Physical Properties (Cont.)

| Property   | Unit                                | Value     |
|--|-------------------------------------|-----------|
| Autoignition Temperature                         | °C (°F)                             | 460 (860) |
| Evaporation Rate (N-butyl Acetate = 1.0)         |                                     | 5         |
| Solubility, g/L or % @ 20°C                      |                                     |           |
| Solvent in Water                                 | %                                   | 3         |
| Water in Solvent                                 | %                                   | 1.9       |
| Hansen Solubility Parameters                     |                                     |           |
| _Total   | (J/cm <sup>3</sup> ) <sup>1/2</sup> | 8.6       |
| _Non-polar                                       |                                     | 7.3       |
| _Polar   |                                     | 2.2       |
| _Hydrogen Bonding                                |                                     | 4.0       |
| Partition Coefficient, N-octanol/Water (log Pow) |                                     | 1.18      |
| Flammable Limits                                 |                                     |           |
| Lower  | vol.% in air                        | 1.18      |
| Upper  |                                     | 8.0       |

## Classification/ Registry Numbers/Country Inventory<sup>1</sup>.

|                     |                   |
|---------------------|-------------------|
| CAS#                | 108-21-4          |
| AICS (Australia)    | 108-21-4          |
| DSL (Canada)        | 108-21-4          |
| IECSC (China)       | 108-21-4          |
| ECI (Korea)         | 108-21-4/KE-21670 |
| EINECS (EU)         | 203-561-1         |
| MITI (Japan)        | 108-21-4          |
| ENCS/IHSL (Japan)   | 2-727             |
| NZIoC (New Zealand) | 108-21-4          |
| PICCS (Philippines) | 108-21-4          |
| TSCA (U.S.)         | 108-21-4          |

<sup>1</sup>NOTE: Classifications apply only to this Oxygenated Solvents product. It is the responsibility of the formulator to ensure that the final finished product complies with the regulations of a given country prior to its sale or distribution in that country.

## How Supplied

| REGION        | PACKAGING | TRANSPORT MODE      |
|---------------|-----------|---------------------|
| Europe/Africa | Bulk/Drum | Tank Truck          |
| Latin America | Drum      | Not Applicable      |
| North America | Bulk/Drum | Tank Truck/Tank Car |
| Pacific       | Drum      | Tank Truck          |

## **Product Stewardship**

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