

Technical Data Sheet



Product Name n-Propyl Acetate

Synonyms Acetic Acid, n-propyl Ester

Chemical Formula $\text{CH}_3\text{COOC}_3\text{H}_7$

Product Description N-propyl acetate is a colorless, volatile solvent with an odor similar to acetone. It has good solvency power for many natural and synthetic resins. It is miscible with many organic solvents.

- Applications
- Coatings
 - Wood lacquers
 - Aerosol sprays
 - Nail care
 - Cosmetic / personal care solvent
 - Fragrance solvent
 - Process solvent
 - Printing inks (especially flexographic and special screen)

Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	102.13
Boiling Point @ 760 mmHg, 1.01 ar	101.5 °C (214.7 °F)
Flash Point (Setaflash Closed Cup)	11.8 °C (53.24°F)
Freezing Point	-93 °C (-135.4°F)
Vapor pressure@ 25°C — extrapolated	25 mmHg 4.79 Kpa
Specific gravity (20/20°C)	0.888
Liquid Density @ 20°C	0.89 g/cm ³
Vapor Density (air = 1)	3.5
Viscosity (cP or mPa·s @ 20°C)	0.6
Surface tension (dynes/cm or mN/m @ 20°C)	24.4
Specific heat (J/g°C @ 25°C)	No test data available
Heat of vaporization (J/g) at normal boiling point	No test data available
Net heat of combustion (kJ/g) — predicted @ 25°C	No test data available
Autoignition temperature	380 °C (716 °F)
Evaporation rate (n-butyl acetate = 1.0)	2.75
Solubility, g/L or % @ 20°C	
Solvent in water	2%
Water in solvent	2.6%
Hansen solubility parameters (J/cm ³) ^{1/2}	
_Total	8.6
_Non-Polar	7.5
_Polar	2.1

Hydrogen bonding	3.7
Partition Coefficient, n-octanol/water (log Pow)	1.4
Flammable limits (vol.% in air)	
Lower	1.7
Upper	8.0

Typical Physical Properties:

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

Classification/Registry Numbers/Country Inventory@.

CAS#	109-60-4
AICS (Australia)	109-60-4
DSL (Canada)	109-60-4
IECSC (China)	109-60-4
ECI (Korea)	109-60-4/KE-29778
EINECS (EU)	203-686-1
MITI (Japan)	109-60-4
ENCS/IHSL (Japan)	2-727
NZIoC (New Zealand)	109-60-4
PICCS (Philippines)	109-60-4
TSCA (U.S.)	109-60-4

@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	Bulk/Drum	Tank Truck
North America	Bulk/Drum	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to the use.

For More Information

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