

Technical Data Sheet



Product Name	Propanol
Synonyms	n-propyl alcohol; 1-propanol; propan-1-ol
Chemical Formula	$\text{CH}_3(\text{CH}_2)_2\text{OH}$
Product Description	A clear, polar water-soluble solvent with a very mild odor.
Applications	<ul style="list-style-type: none"> • Flexographic and other printing inks • Coatings • Cleaners • Floor polishes • Metal de-greasing fluids • Adhesives • Chemical intermediate (esters, propylamines, halides) • Insecticides • Herbicides • Pharmaceuticals • De-icing fluids

Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	60.1
Boiling Point @ 760 mmHg, 1.01 ar	97 °C (207 °F)
Flash Point (Setaflash Closed Cup)	24 °C (75°F)
Freezing Point	-127.5 °C (-197.5°F)
Vapor pressure@ 25°C — extrapolated	14.9 mmHg 20 Pa
Specific gravity (20/20°C)	0.803
Liquid Density @ 20°C	0.80 g/cm ³
Vapor Density (air = 1)	2.1
Viscosity (cP or mPa·s @ 20°C)	2.3
Surface tension (dynes/cm or mN/m @ 20°C)	23.8
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	400 °C (751 °F)
Evaporation rate (n-butyl acetate = 1.0)	1.3
Solubility, g/L or % @ 20°C	
Solvent in water	100%
Water in solvent	100%
Hansen solubility parameters (J/cm ³) ^{1/2}	
_Total	12.0

_Non-Polar	7.8
_Polar	3.3
_Hydrogen bonding	8.5
Partition Coefficient, n-octanol/water (log Pow)	0.25
Flammable limits (vol.% in air)	
Lower	2.1
Upper	13.7

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#	71-23-8
AICS (Australia)	71-23-8
DSL (Canada)	71-23-8
IECSC (China)	71-23-8
ECI (Korea)	71-23-8/KE-29362
EINECS (EU)	200-746-9
MITI (Japan)	71-23-8
ENCS/IHSL (Japan)	2-207
NZIoC (New Zealand)	71-23-8
PICCS (Philippines)	71-23-8
TSCA (U.S.)	71-23-8

@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
North America: Toll-free 1-800-447-4369
Europe: Toll-free (+800) 3-694-6367
 (+31) 11567-2626
Asia-Pacific: Toll-free (+800) 7776-7776
 (+60) 3-7958-3392
Latin America: (+55) 11-5188-9222
www.dow.com

NOTICE: No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. Seller assumes no obligation or liability for the information in this document. References to "Dow" or "Company" mean The Dow Chemical Company and its consolidated subsidiaries unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.



