

## Technical Data Sheet



Product Name Propyl CELLOSOLVE™ Solvent

Synonyms Ethylene glycol monopropyl ether

Chemical Formula  $C_3H_7OCH_2CH_2OH$

Product Description Propyl CELLOSOLVE™ Solvent is a high solvency glycol ether with excellent coupling and coalescent properties. It is useful in printing and other specialized coatings applications and is a frequent choice for replacement of CELLOSOLVE™ Solvent. It's fast evaporation, high water solubility and active solvency make Propyl CELLOSOLVE™ Solvent ideal for a variety of cleaning applications.

Applications

- Solvent in specialty printing inks
- Coalescent for specialty coatings
- Coupling agent and solvent in household and industrial cleaners

### Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	104.2
Boiling Point @ 760 mmHg	147 °C (297 °F)
Flash Point (EC Method A9 Closed Cup)	51 °C (124 °F)
Freezing Point	-90 °C (-130 °F)
Vapor pressure@ 25°C	643 Pa (4.8 mmHg)
Specific gravity (20/20°C)	0.911
Liquid Density @ 20°C	0.91 g/cm <sup>3</sup> (7.6 lb/gal)
Vapor Density (air = 1)	3.6
Viscosity (cP or mPa·s @ 20°C)	2.7
Surface tension (dynes/cm or mN/m @ 25°C)	26.3 (neat product) 32.3 (25% aq. Sol'n)
Specific heat (J/g°C @ 25°C)	2.22
Heat of vaporization (J/g) at normal boiling point	382.6
Net heat of combustion (kJ/g) — predicted @ 25 °C	28.1
Autoignition temperature	256 °C (493 °F)
Evaporation rate (n-butyl acetate = 1.0)	0.2
Solubility, g/L or % @ 20°C	
Solvent in water	100 %
Hansen solubility parameters (J/cm <sup>3</sup> ) <sup>1/2</sup>	
<sub>d</sub> (Dispersion)	16.1
<sub>p</sub> (Polar)	8.0
<sub>h</sub> (Hydrogen bonding)	13.1
Partition Coefficient, n-octanol/water (log Pow)	0.673
Flammable limits (vol.% in air)	
Lower	1.3
Upper	15.8

#### Typical Physical Properties:

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

## Registry Numbers/Country Inventory@.

CAS#	2807-30-9
AICS (Australia)	2807-30-9
DSL (Canada)	2807-30-9
IECSC (China)	2807-30-9
ECI (Korea)	2807-30-9/KE-29764
EINECS (EU)	220-548-6
MITI (Japan)	2807-30-9
ENCS/IHSL (Japan)	2-2424
NZIoC (New Zealand)	2807-30-9/HSR001161
PICCS (Philippines)	2807-30-9
TSCA (U.S.)	2807-30-9

@NOTE: Applies only to this glycol ether 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/Barge
Latin America	Drum	Not Applicable
North America	Bulk/Drum	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

## Product Stewardship

Dow encourages its customers and 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 product safety considerations. Dow literature, including 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](http://www.dow.com)

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