



Product Name Butyl CELLOSOLVE™ Solvent

Synonyms Ethylene glycol monobutyl ether.

Chemical Formula $C_4H_9OCH_2CH_2OH$

Product Description Butyl CELLOSOLVE™ glycol ether is a fast-evaporating glycol ether with an excellent balance of hydrophilic and hydrophobic character; excellent active solvency and coupling properties. Butyl CELLOSOLVE™ is a very versatile solvent product with a good balance of many different properties. With a nearly equal balance of hydrophobic and hydrophilic character, Butyl CELLOSOLVE™ glycol ether provides excellent performance in coatings, cleaners, and many other types of products. It is one of our fastest evaporating glycol ethers. Butyl CELLOSOLVE™ glycol ether is compatible with a wide range of resin types, and it also offers 100% water solubility.

- Applications
- Active solvent for solvent-based coatings.
 - Coalescent for industrial water-based coatings.
 - Coupling agent for architectural water-borne coatings.
 - Coupling agent and solvent in household and industrial cleaners, rust removers, hard surface cleaners, and disinfectants.
 - Primary solvent in solvent-based silk screen printing inks.
 - Coupling agent for resins and dyes in water-based printing inks.
 - Solvent for agricultural pesticides.

Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	118.2
Boiling Point @ 760 mmHg, 1.01 ar	171 °C (340 °F)
Flash Point (Setaflash Closed Cup)	67 °C (153°F)
Freezing Point	-75 °C (-103°F)
Vapor pressure@ 20°C — extrapolated	0.66 mmHg 0.117 kPa
Specific gravity (25/25°C)	0.901
Liquid Density @ 20°C	0.902 g/cm3
Vapor Density (air = 1)	No test data available
Viscosity (cP or mPa•s @ 20°C)	3.3
Surface tension (dynes/cm or mN/m @ 20°C)	65 @ 2 g/L
Specific heat (J/g°C @ 25°C)	2.38
Heat of vaporization (J/g) at normal boiling point	348
Net heat of combustion (kJ/g) — predicted @ 25°C	30.0
Autoignition temperature	230 °C (446 °F)
Evaporation rate (n-butyl acetate = 1.0)	0.06
Solubility, g/L or % @ 25°C	
Solvent in water	100%

Hansen solubility parameters	
(J/cm ³) ^{1/2}	
δ (Dispersion)	16.0
ρ (Polar)	7.6
π (Hydrogen bonding)	12.3
Partition Coefficient, n-octanol/water (log Pow)	0.81
Flammable limits (vol.% in air)	
Lower	1.3
Upper	10.6

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#	111-76-2
AICS (Australia)	111-76-2
DSL (Canada)	111-76-2
IECSC (China)	111-76-2
ECI (Korea)	111-76-2
EINECS (EU)	203-905-0
MITI (Japan)	111-76-2
ENCS/IHSL (Japan)	2-407
NZIoC (New Zealand)	111-76-2
PICCS (Philippines)	111-76-2
TSCA (U.S.)	111-76-2

@NOTE: Classifications apply 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
Latin America	Bulk/Drum	Tank Truck
North America	Bulk/Drum	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

Product Stewardship

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

* International toll free from Austria, Belgium, Denmark,

Finland (prefix 990), France, Germany, Hungary,

Ireland, The Netherlands, Norway, Portugal, Spain,

Sweden, Switzerland, and the United Kingdom

www.dow.com

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.

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.



