



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/cm ³
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_d (Dispersion)	16.0
δ_p (Polar)	7.6
δ_h (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
ECl (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

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Ireland, The Netherlands, Norway, Portugal, Spain,

Sweden, Switzerland, and the United Kingdom

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