



Technical Data Sheet

Butyl CELLOSOLVE™ Solvent

Synonyms

Ethylene glycol monobutyl ether

Sustainability Attribute:

Chemical Formula

C₄H₉OCH₂CH₂OH



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.

Properties

Property	Unit	Value
Molecular weight	g/mol	118.2
Boiling point @ 760 mmHg, 1.01 ar	°C (°F)	171 (340)
Flash point (Setaflash Closed Cup)	°C (°F)	67 (153)
Freezing point	°C (°F)	-75 (-103)
Vapor pressure @ 20°C — extrapolated	mmHg kPa	0.66 0.117
Specific gravity (25/25°C)		0.901
Liquid density @ 20°C	g/cm ³	0.902
Vapor density (air = 1)		No test data available
Viscosity (@ 20°C)	cP or mPa•s	3.3
Surface tension (@ 20°C)	dynes/cm or mN/m	65 @ 2 g/L
Specific heat (@ 25°C)	J/g/°C	2.38

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

Typical Properties (Cont.)

Property	Unit	Value
Heat of vaporization at normal boiling point	J/g	348
Net heat of combustion — predicted @ 25°C	kJ/g	30.0
Autoignition temperature	°C (°F)	230 (446)
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}	
_d (dispersion)		16.0
_p (polar)		7.6
_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

Classification/ Registry Numbers/Country Inventory¹.

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

¹NOTE: 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

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