



Technical Data Sheet

Butoxytriglycol

Synonyms

Triethylene glycol monobutyl ether.

Sustainability Attribute:

Chemical Formula

$C_4H_9(OCH_2CH_2)_3OH$



Product Description

Butoxytriglycol is a low-volatility, high solvency glycol ether with excellent coupling Properties. The versatility of Butoxytriglycol is demonstrated by the variety of applications in which it may find use. The low volatility and excellent solvency makes this glycol ether a highly effective carrier solvent for textile dye processes. With superior surface tension characteristics, water solubility and solvency for oils, it has potential for use in household, institutional, industrial and special-purpose cleaners. The coupling ability of this product enhances performance and improves shelf stability of cleaning products.

Uses / Applications

- Active solvent for solvent-based coatings.
- Dye carrier for textile dye processes.
- Coupling agent and solvent in household and industrial cleaners, paint and floor polish strippers, hard surface cleaners, and disinfectants.
- Chemical process solvent and intermediate for ester production used as solvents, surfactants and plasticizers.
- Coupling agent for resins and dyes in water-based printing inks.
- Component of high-boiling hydraulic brake fluids.

Typical Physical Properties

Property	Unit	Value
Molecular weight	g/mol	206.3
Boiling point @ 760 mmHg, 1.01 ar	°C (°F)	278 (532)
Flash point (Setaflash Closed Cup)	°C (°F)	131 (268)
Freezing point	°C (°F)	-35 (-31)
Vapor pressure@ 25°C — extrapolated	mmHg (Pa)	< 0.01 (0.33)
Specific gravity (20/20°C)		0.989

Typical Physical Properties:

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

Typical Physical Properties (Cont.)

Property	Unit	Value
Liquid density @ 20°C	g/cm ³	0.989
Vapor density (air = 1)		7
Viscosity (@ 25°C)	cP or mPa•s	9.2
Surface tension (@ 20°C)	dynes/cm or mN/m	30.0 (neat product) 32.2 (25% aq sol'n)
Specific heat (@ 25°C)	J/g°C	2.21
Heat of vaporization at normal boiling point	J/g	231.4
Net heat of combustion — predicted @ 25°C	kJ/g	28.7
Autoignition temperature	°C (°F)	202 (396)
Evaporation rate (n-butyl acetate = 1.0)		0.01
Solubility, g/100 g @ 25°C Solvent in water	%	100
Hansen solubility parameters (J/cm ³) ^{1/2}		
_d (Dispersion)		16.2
_p (Polar)		7.0
_h (Hydrogen bonding)		7.4
Partition coefficient, n-octanol/water (log Pow)		0.51
Flammable limits	vol.% in air	
Lower		No test data available
Upper		No test data available

Classification/ Registry Numbers/Country Inventory¹.

CAS#	143-22-6
AICS (Australia)	143-22-6
DSL (Canada)	143-22-6
IECSC (China)	143-22-6
ECI (Korea)	143-22-6
EINECS (EU)	205-592-6
MITI (Japan)	143-22-6
ENCS/IHSL (Japan)	2-436
NZIoC (New Zealand)	143-22-6
PICCS (Philippines)	143-22-6
TSCA (U.S.)	143-22-6

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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