



Product Name Ethoxytriglycol

Synonyms Triethylene glycol monoethyl ether.

Chemical Formula  $C_2H_5(OCH_2CH_2)_3OH$

Product Description Ethoxytriglycol is a low-volatility, high solvency glycol ether with excellent coupling properties. The versatility of ethoxytriglycol, triethylene glycol monoethyl ether, is demonstrated by the variety of applications in which it may find use. Low volatility and excellent solvency make 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.

- 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	Value
Molecular Weight (g/mol)	178.2
Boiling Point @ 760 mmHg, 1.01 ar	256 °C (493 °F)
Flash Point (Setaflash Closed Cup)	129 °C (265 °F)
Freezing Point	-19 °C (-2.2°F)
Vapor pressure@ 25°C — extrapolated	<0.01 mmHg (0.001 kPa)
Specific gravity (20/20°C)	1.023
Liquid Density @ 20°C	1.02 g/L (8.52 lb/gal)
Vapor Density (air = 1)	6
Viscosity (cP or mPa·s @ 20°C)	7.8
Surface tension (dynes/cm or mN/m @ 20°C)	30.0 (neat product) 32.2 (25% aq sol'n)
Specific heat (J/g°C @ 25°C)	2.21
Heat of vaporization (J/g) at normal boiling point	231.4
Net heat of combustion (kJ/g) — predicted @ 25°C	28.7
Autoignition temperature	202-210 °C (396-410°F)
Evaporation rate (n-butyl acetate = 1.0)	<0.01

Solubility, % @ 25°C	
Solvent in water	100 %
Hansen solubility parameters	
(J/cm <sup>3</sup> ) <sup>1/2</sup>	
$\delta$ (Dispersion)	16
$\rho$ (Polar)	7.8
$\pi$ (Hydrogen bonding)	9.7
Partition Coefficient, n-octanol/water (log Pow)	-0.6
Flammable limits (vol.% in air)	
Lower	1.0
Upper	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#	112-50-5
AICS (Australia)	112-50-5
DSL (Canada)	112-50-5
IECSC (China)	112-50-5
ECI (Korea)	112-50-5/KE-13363
EINECS (EU)	203-978-9
MITI (Japan)	112-50-5
ENCS/ISHL (Japan)	2-436
NZIoC (New Zealand)	112-50-5
PICCS (Philippines)	112-50-5
TSCA (U.S.)	112-50-5

@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
North America	Bulk/Drum	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

**Product Stewardship**

**For More Information**

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