

Ethylene glycol

Chemical Properties

CAS No. :	107-21-1
Formula:	C ₂ H ₆ O ₂
Molecular Weight:	62.07
Storage:	Store at RT Actual storage temperature shall be subject to the COA.

Biological Description

Description	Ethylene glycol is a diol used in the production of polyester fibres and as an antifreeze agent, widely applied in biochemical experiments and drug synthesis research.
Targets(IC50)	Others
In vitro	Ethylene glycol can be used as a solvent and reducing agent in nanomaterial synthesis experiments, and can promote the formation of monodisperse metal nanocrystals by reducing metal ions (such as Ag ⁺ , Cu ²⁺). [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (1288.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	16.1108 mL	80.5542 mL	161.1084 mL
5 mM	3.2222 mL	16.1108 mL	32.2217 mL
10 mM	1.6111 mL	8.0554 mL	16.1108 mL
50 mM	0.3222 mL	1.6111 mL	3.2222 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yue H, et al. Ethylene glycol: properties, synthesis, and applications. Chem Soc Rev. 2012 Jun 7;41(11):4218-44.

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