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## Product Information

### 2-Ethoxyethanol

Product Number **E 2632**  
Store at Room Temperature

#### Product Description

Molecular Formula:  $C_4H_{10}O_2$

Molecular Weight: 90.12

CAS Number: 110-80-5

Boiling point: 135 °C

Melting point: -70 °C

Density: 0.931 g/ml

Synonyms: Ethyl glycol, Cellosolve, ethylcellosolve, ethylene glycol monoethyl ether, 2EE

2-Ethoxyethanol is used as a component or solvent for nitrocellulose, a wide variety of dyes, inks, cleaning agents, resins, paints, and varnishes. It is used for increasing the stability of emulsions.<sup>1</sup>

The teratogenic effects of 2EE are due to the alkoxyacetic acid metabolites formed via the alcohol dehydrogenase pathway.<sup>2</sup> The effect of 2EE on human leukemic cells lines HL-60, MOLT3, and K562 has been described.<sup>3</sup>

2-Ethoxyethanol has been used as a destaining solution for lipoproteins on polyacrylamide gels stained with Sudan Black B. Gels were destained with a solution of 50% ethylene glycol monoethyl ether in water for 2 hours. Ethylene glycol monoethyl ether can also be used to rehydrate gels. After destaining a gel stained with Coomassie® Brilliant Blue with a solution of methanol and acetic acid, the gels can be rehydrated in a solution of 25% ethylene glycol monoethyl ether in water to restore the gel size and shape. Such gels can then be scanned.<sup>4</sup>

#### Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

#### Preparation Instructions

Ethylene glycol monoethyl ether is miscible with water and organic solvents.

#### References

1. The Merck Index, 13th ed., Entry# 3786.
2. Aasmoe, L., and Aarbakke, J., Sex-dependent induction of alcohol dehydrogenase activity in rats. *Biochem. Pharmacol.*, **57(9)**, 1067-1072 (1999).
3. Hoflack, J. C., et al., Glycol ethers induce death and necrosis in human leukemia cells. *Biochem. Cell Biol.*, **75(4)**, 415-425 (1997).
4. Zhao, S. P., et al., Effect of simvastatin on the apparent size of LDL particles in patients with type IIB hyperlipoproteinemia. *Clin. Chim. Acta*, **203(2-3)**, 109-117 (1991).

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GRS/ALF/RXR 10/03

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