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## Ethylene Glycol,

HOCH<sub>2</sub>CH<sub>2</sub>OH      62.07      CAS RN<sup>®</sup>: 107-21-1.—Clear, colorless, slightly viscous, hygroscopic liquid. Slightly soluble in ether; practically insoluble in benzene. Miscible with water and with alcohol.

- **SPECIFIC GRAVITY (841)**: about 1.11.
- **BOILING RANGE** (Reagent test): between 194° and 200°.
- **RESIDUE ON IGNITION**: Evaporate 100 mL (110 g) in a tared evaporating dish over a flame until the vapors continue to burn after the flame is removed. Allow the vapors to burn until the specimen is consumed. Ignite at 800 ± 25° for 1 hour, cool, and weigh: the residue weighs not more than 5.5 mg (0.005%).
- **ACIDITY**: Add 0.2 mL of phenol red TS to 50 mL of water, and titrate with 0.1 N sodium hydroxide to a red endpoint. Add 50 mL (55 g) of ethylene glycol, and titrate with 0.1 N sodium hydroxide: not more than 1 mL is required to restore the red color (0.01% as CH<sub>3</sub>COOH).
- **CHLORIDE** (Reagent test): A 4.5-mL (5-g) portion shows not more than 0.025 mg of Cl (5 ppm).
- **WATER DETERMINATION, Method I (921)**: not more than 0.20%.

**Auxiliary Information** - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
ETHYLENE GLYCOL	<a href="#">Margareth R.C. Marques</a> Principal Scientific Liaison	HDQ Headquarters

**Most Recently Appeared In:**

Pharmacopeial Forum: Volume No. Information currently unavailable

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