

# EPICHLOROHYDRINE (ECH)



CAS Number: 106-89-8

**Other Names:** Chloromethyl)oxirane; Epichlorohydrin;  
1-Chloro-2,3-epoxypropane;  $\gamma$ -Chloropropylene oxide; Glycidyl chloride

**Formula:** C<sub>3</sub>H<sub>5</sub>ClO

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## PRODUCT INTRODUCTION

Epichlorohydrin is an epoxide that is 1,2-epoxypropene in which one of the methyl hydrogens is substituted by chlorine. It is an organochlorine compound and an epoxide. Epichlorohydrin is a volatile and flammable, clear, colorless, liquid, chlorinated cyclic ether with an irritating, chloroform-like odor that emits toxic fumes of hydrochloric acid and other chlorinated compounds when heated to decomposition.

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## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, No Contaminations
Color (APHA)	7.00
Water Content	122,00 ppm
Purity by GC	99.97 %

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## APPLICATIONS

- Epichlorohydrin is mainly converted to bisphenol diglycidyl ether, a building block in the manufacture of epoxy resins.
- It is also a precursor to monomers for other resins and polymers. Another usage is the conversion to synthetic glycerol.
- Solvent for natural and synthetic resins, gums, cellulose esters and ethers, paints, varnishes, nail enamels and lacquers, cement for celluloid.
- An important biochemical application of epichlorohydrin is its use as crosslinking agent for the production of Sephadex size-exclusion chromatographic resins from dextran.
- Polymers made from epichlorohydrin, e.g., polyamide-epichlorohydrin resins, are used in paper reinforcement and in the food industry to manufacture tea bags, coffee filters, and sausage/salami casings as well as with water purification

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## PACKAGING OPTIONS

Drums

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