

## Epichlorohydrin

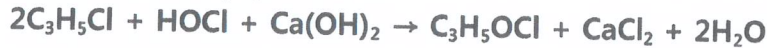
■ **Name** : Epichlorohydrin(ECH); Chloropropylene oxide, Propylene oxide

■ **Description**

Epichlorohydrin is colorless, flammable, toxic liquid having specific chloroform-like odor  
Epichlorohydrin is mainly used as the raw material for epoxy resins, which are used in paints, electronics and construction materials. Epichlorohydrin is also used for specialty chemicals, such as water treatment chemicals, glycidyl compounds, and elastomers.

■ **Raw Materials** : Propylene/Chlorine

■ **Manufacturing Process**



■ **Physical properties**

Appearance	Colorless liquid with Irritating chloroform line odor
Mol. Weight	92.5
Sp.Gr.(20°C)	1.18
Boiling point(760mmHg)	116°C
Melting point	-57°C
Viscosity(20°C)	1.12cP
Flash point	31°C(Closed cup)
Explosion limit	3.8~21Vol%(in air)
Ignition point	385°C
Vaper pressure(20°C)	1.6kPa

■ **Product Specifications**

Test item	spec.	Test Method
Epichlorohydrin(wt%)	99.9 min.	M18ISOZ-001
Moisture(ppm)	500 max.	M18ISOZ-002
Color(APHA No.)	15 max.	M18ISOZ-003
Sp.Gr.(20°C)	1.180 ~ 1.185	M18ISOZ-005

■ **Packing**

- 240kg Steel drum
- ISO-Tank Container

■ **Applications**

- Raw material for Epoxy resin
- Synthetic Glycerin
- Polyamide-epichlorohydrin resin for wet strength resin production
- Glycidyl ethers, glycidyl methacrylate surfactants
- Ion-exchange resin
- Keep out of water supplies and sewers
- Polyamide water treatment chemicals
- Flame retardants
- Quaternary amines

■ **Handling & storage**

- Avoid contact with temperatures above 325°C
- Avoid heat,flames,sparks and other source of ignition
- Containers may rupture or explode if exposed to heat
- Protect from physical damage
- Keep separated from incompatible substances