

Ethylene Oxide

Product Code: Bulk - 5012

CAS#: 75-21-8

Description

Ethylene oxide is a highly reactive, colorless, low boiling liquid or gas with an ether-like odor. It is an important chemical intermediate for the production of ethylene glycol, polyethylene glycols, glycol ethers, ethanolamines, as well as a wide variety of surface-active agents.

Specifications

<u>Specifications</u>	<u>Value</u>
Acidity, as Acetic Acid, wt. % max.	0.002
Aldehydes, as Acetaldehyde, wt. % max.	0.01
Color, Platinum-Cobalt, (APHA) max.	10
Non-Volatile Residue, g/100 ml max.	0.01
Water, wt. % max.	0.03

Typical Properties

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Molecular weight	44
Boiling point at 760 mm Hg, °C (°F)	10.5 (50.9)
Freezing point, °C (°F)	-111.3 (-168.3)
Flash point (TOC), °C (°F)	<-18 (<0)
Density at 4°C (39.2°F), g/ml	0.890
Surface tension at 20°C, dyne/cm	28.0
Vapor pressure at 20°C, mm Hg	1095
Explosive Limits in Air at 760 mm Hg	
Upper, % by volume	100
Lower, % by volume	3
Weight/gal. (U.S.) in lbs. at 10°C	7.25

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