

# Ethyl chloride

## VESTOLIT Base Chemicals

At room temperature, gaseous alkyl chloride with an ethereal smell, easily compressible to a colorless liquid. Ethyl chloride is used among other things as a chemical intermediate for the production of metal alkyls and ethyl cellulose.

### Classification

- Ethyl chloride C<sub>2</sub>H<sub>5</sub>Cl
- Monochlorethane
- Chlorethane
- CAS-No. 75-00-3
- Molar mass: 64.52 g/mol

### Applications

- Chemical Industry (alkylation)
- Ethyl benzene | styrene (catalyst)
- Ethyl cellulose
- Metal-alkyls
- Tetraethyllead (TEL)

### Delivery data

Properties	Method <sup>1)</sup>	Unit	Value
Purity (GC)	DIN 51 619	% (m)	≥ 99.8
Nonvolatile matter	ASTM D 2109	mg/kg	≤ 50
Water content	DIN EN ISO 10101	mg/kg	≤ 100
Acidity (as HCl)	ASTM D 2989	mg/kg	≤ 10

<sup>1)</sup> based on the standard which are in force

### Physical Data (Literature information)

Characterization		Uni	Value
Boiling temperature	at 1013 hPa	°C	12.3
Density	at 0 °C	g/cm <sup>3</sup>	0.924
Heat of vaporisation at boiling point		kJ/kg	395.2
Specific heat		kJ/kg K	1.57
Vapor Pressure	approx. 0 °C	hPa	624
Vapor Pressure	approx. 10 °C	hPa	930
Vapor Pressure	approx. 20 °C	hPa	1,344
Vapor Pressure	approx. 30 °C	hPa	1,889
Vapor Pressure	approx. 40 °C	hPa	2,591
Vapor Pressure	approx. 50 °C	hPa	3,477
Vapor Pressure	approx. 60 °C	hPa	4,574
Critical temperature	-	°C	183
Critical point	-	bar	52.7
Solubility at 0° C	Water in Ethyl chloride	g/l	0.7
Solubility at 0° C	Ethyl chloride in water	g/l	4.55
Explosion limit in air	-	Vol. %	3.6-14.8
Ignition temperature	DIN 51 794	°C	517

Safety and transport information and toxicologic data are included in our actual material safety data sheet (MSDS).

For further information and advice, please contact our technical service at [Customer-Service.Europe@vestolit.com](mailto:Customer-Service.Europe@vestolit.com) or our representatives.