

Chloroethane / Ethyl Chloride

Product name:	Chloroethane, or ethyl chloride
Molecular formula:	CH ₃ CH ₂ Cl
Synonyms:	Ethyl chloride, hydrochloric ether, monochloroethane, muriatic ether
CAS:	75-00-3
NIOSH/RTECS Number:	KH7525000
Conversion:	1 ppm = 2.64 mg/m ³
Uses:	Base chemical for the production of tetra-ethyl. Promoter in Production of Ethylene glycol sets. Used as a refrigerant, a gasoline additive, an aerosol spray propellant, an anesthetic, and a blowing agent for foam packaging.

Composition/ Information on Ingredients:

Ingredient:	Chloroethane
Weight%:	≥99.0 (test ≥99.5%)

Physical and Chemical Properties:

Form:	Pressurised liquified gas, Gaseous
Color:	Colorless
Odor:	Pungent, ether-like
Melting Point:	-142.5 °C
Boiling Point:	12.3 °C
Pressure:	1013 hPa
Flash Point:	<0 °C
Measuring Method:	DIN 51755
Ignition Temperature:	510 °C
Measuring Method:	DIN 51794
Lower Explosion Limit:	3.6 % vol
Upper Explosion Limit:	14.8 % vol
Vapor Pressure:	1342 hPa
Temperature:	20 °C
Density:	0.92 g/cm ³
Temperature:	1 °C
Water Solubility Appr.:	5.8 g/l
Temperature:	20 °C
Remarks:	Reacts with water

Partition coefficient (n-octyl alcohol/water): 1.52

Stability and Reactivity:

Hazardous Decomposition Products: Hydrogen chloride (HCl)

Thermal Decomposition: > 400 °C

Materials to Avoid: Spontaneous reactions with alkali metals, magnesium, zinc, aluminum.

Disposal Considerations

Recommendation: Unused product should be returned to vendor.

Container Recommendation: Cylinder and unused product should be returned to vendor. Disposable cylinder must be disposed of in accordance with local regulations.

Waste Code: In accordance with regulations for special waste, must be taken, after pretreatment, to an authorized special waste incineration plant.

Transportation Information (for reference):

	Land Transport GGVS/ADR/RID	Marine Transport IMDG/GGVSee	Air Transport ICAO/IATA	Inland Waterway Transport ADN/ADNR
Proper Shipping Name	Ethyl chloride	Ethyl chloride	Ethyl chloride	Ethyl chloride
UN No.	1037	1037	1037	1037
Class	2	2.1	2.1	2
Packaging Group:	-	-	-	-
Labels:	2.1	2.1	2.1	2.1
Tunnel Restriction Code:	B/D			
Remarks:		EmS: F-D, S-U	ICAO/IATA cargo aircraft only.	

Sample Test Report

Property	Unit	Value
Purity	%	≥99.5
Water	PPM	≤150
Acidity (as HCl)	%	≤0.001
PH		6.8~7.2
Alcohol	PPM	≤10
Gravity d-154 Sg d-154		0.917
Organic Impurities Assay		negligible
Appearance		Clear

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For order or more information please contact chemie@sunny-gmbh.de.