

VINYL CHLORIDE MONOMER

Last revision 2008

Chemical Name: Molecular formula: C_2H_3Cl
 No.CAS: 75-01-4
 Abbreviation: VCM

General Description:

Vinyl Chloride Monomer is a colourless gas under normal temperature and pressure conditions. It is used liquefied, under pressure. The product has a slightly ether odour.

Characteristics	MU	Limits	Test methods
Vinyl chloride, min.	%	99.95	ILL-003/1-02-33
Acetylene compounds amount, max.	ppm	6	ILL-003/1-02-33
Chlorinated compounds amount, max.	ppm	100	ILL-003/1-02-33
1,3- Butadyene, max	ppm	10	ILL-003/1-02-33
Water (Karl-Fischer), max.	ppm	100	ASTM E 203
Acidity (HCl), max.	ppm	1	ASTM D 2989
Iron, max.	ppm	0.5	SR ISO 6685

Specific Properties:

Liquid density, g/cm^3	0.9121
Gas density, g/cm^3	2.15
Boiling temperature, $^{\circ}C$	-13.9 at 760 mmHg
Ignition temperature, $^{\circ}C$	-78 (closed cup)

The values of those characteristics are approximated, and are only for general information and are not part of the technical quality conditions.

Main Applications:

- as a monomer in manufacturing polyvinyl chloride

Shipping Information:

- under pressured tanks.

Storage:

It is recommended that you should store the product in tightly closed containers in a cool, well-ventilated area, away from sources of heat, and incompatibles. Outside or detached storage is preferred. At ambient temperature can be stored in steel tanks. Drums must be equipped with self-closing valves, pressure vacuum bungs and flame arresters. Consider installation of leak detection and alarm for storage and use area. Do not store below ground level.



Safety Considerations:

Please refer to the product Material Safety Data Sheet (MSDS) offering customers help to better satisfy their particular handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations.

Warning:

Vinyl chloride is a hazardous material and must be handled carefully and properly.

The allowed maximum concentration in working area is of 5 mg/m³ air. The product is extremely flammable. In a range of 4-22%, gas/air mixtures are explosive.

Vinyl chloride monomer vapours are uninhibited and may form polymers in vents or flame arresters of storage tanks resulting in blockage of vents.

Attention:

Information contained in this document is provided to the best of our knowledge and experience. Please contact OLTCHIM to see if the document has been revised.

Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.