## **Methyl Chloride**

methylchloride

Methyl Chloride is used in the chemical and pharmaceutical industry, mainly as raw material for the production of silicones and methyl celluloses, but also for surfactants, pharmaceuticals and dye stuffs. For more information on Methyl Chloride, please download our Application Guide or Product Data Sheet. CAS number 74-87-3 REACH number 01-2119493708-22

EINECS/ELINCS No. 200-817-4 Molecular weight 50.49

#### Characteristics

Nouryon

Auto ignition temperature, 1013 mbar	~625 °C
Boiling temperature, 1013 mbar	-23.8 °C
Critical molar volume	0.139 m³/mol
Critical pressure	66.8 bar
Critical temperature	143.1 °C
Density	0.363 g/cm <sup>3</sup>
Density (gas), 1013 mbar, 0°C	2.307 g/cm <sup>3</sup>
Density (liquid), 4.90 bar, 20°C	0.921 kg/l
Density (liquid),1013 mbar, -24°C	1.003 kg/l
Dynamic viscosity, 20°C	0.18 mPa.s
Evaporation energy, -24°C	426 J/g
Explosion limits in air, 1013 mbar	7.1-18.5 % v/v
Flash point in air, 1013 mbar	-46 °C
Freezing temperature	-97.7 ℃
Fusion energy, -97.7°C	127.4 J/g
Gas pressure (liquid), 20°C	4.90 bar
Heat of combustion $\Delta H^{\circ}c$ (gas), 25°C, 1013 mbar	-12790 J/g
Heat of formation $\Delta H^{\circ}f$ (liquid), 25°C, 1013 mbar	-1622 J/g
Solubility in water, 1013 mbar, 30 °C	~7 g/l
Static dielectric constant (liquid), -24°C	12.9
Surface tension (liquid), 4.90 bar, 20°C	16.5 mN/m
Temperature class (ignition class, DIN VDE 0165)	Τ1
Water pick up (liquid), 25°C	~0.7 g/kg

### Storage

Vessels and tanks containing Methyl Chloride have to be stored well tight in a dry, cool and ventilated place. Keep away from sunlight and heating devices (heaters, radiators, steam pipes) to prevent warming and pressure build-up inside the containers. With respect to these recommendations Methyl Chloride will be stable during storage for at least 6 months.

#### Packaging and transport

As liquefied gas, methyl chloride is dispatched in containers or in compressed-gas rail tankers holding 20 to 65 t. The rail tankers are fitted with a bottom valve for the liquid phase and additional valves for the gas phase (gas-shuttle pipe). Emptying of containers can be done by gas displacement method with the aid of pumps for the liquid phase or by pressurizing with dry nitrogen gas. According to the RID regulation the maximum load being allowed for these containers is 0.81 kg/L. Pressurized gas containers are subject to special statutory regulations. Be aware to attend to specific local national regulations.

UN number

1063

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

### Contact Us

#### Arnhem

Velperweg 76 6824 BM Arnhem The Netherlands +31 26 366 4433 industrialchemicals@nouryon.com

# Nouryon