

METHYL IODIDE

Technical Data Sheet

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Previous editions of this document have lost their validity

Product Data

Chemical Name	Methyl iodide Iodomethane
Molecular Weight	141,94
REACH registration nr.	01-2119488645-23-0001
Chemical formula	CH ₃ I
C.A.S. number	74-88-4
UN number	2644

Applications

- Used as a catalyst in acetic acid production (Monsanto process).
- Common intermediate in the manufacturing of some pharmaceuticals and pesticides.
- Also used in the field of microscopy.
- Organic chemical application: widely used for alkylating carbon, oxygen, sulfur, nitrogen, and phosphorus nucleophiles. It is an excellent substrate for SN2 substitution reactions.

Specification*

Test	Requirements
Appearance	Colorless to light yellow or pink liquid
Purity (area % by GC)	min. 99,0 %
Water content (KF)	max. 300 ppm
Particulates	non visible
Residue on evaporation	max. 0,01%
Ethyl iodide (area % by GC)	max. 0,25%
Methanol (area % by GC)	max. 0,25%
Acidity (as HI)	max. 0,1%
Each unknown impurity (area % by GC)	max. 0,50%
Coloration	<100 APHA

*We can also meet individual customer needs regarding quality.

Hazard classification and safety measures

Methyl iodide is classified in ADR class 6.1 (toxic substances) and has to be transported and handled accordingly. Please note that the transport of methyl iodide by plane is strictly prohibited; only surface transport is possible.

While handling methyl iodide, wearing an appropriate face shield or tightly fitting safety goggles is recommended. For skin protection, wear protective clothing and protective gloves. To avoid inhaling the substance, where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole mean of protection, use a full-face supplied air respirator.

For more information, please take a look at our safety data sheets.

Packing and storage

It is available in non-stabilized and stabilized (with Ag net or Cu wire) versions in 100 kg/KEG and 2,3 kg/bottle packaging. We supply the methyl iodide at DAP delivery terms and collect the empty (contaminated) 100 kg KEG container back. This service is included in the price in Europe. If you wish, we can supply the goods in non-returnable KEG, too. Methyl iodide containers have to be tightly closed and stored in a cool, dry, and well-ventilated place, away from sunlight.

The information above is based on our most recent knowledge. Application and processing of the material after sale is beyond our control and we cannot assume responsibility for any use of this product outside our premises. The data and information presented above should be considered as guidance only. Our TDS shall not constitute a guarantee for any specific properties or quality standards. The recipients of our products are obliged to check the suitability of this material for the intended use and accepts sole responsibility for compliance with any legal requirements relating to its use. This document does not constitute a warranty or guarantee.

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