

Fluoromethane (MeF)

CAS#593-53-3

DESCRIPTION

Fluoromethane, more commonly called methyl fluoride (MeF) or Halocarbon 41 is a non-toxic liquefiable flammable gas used in the manufacture of semiconductor and electronic products. In the presence of a RF field it dissociates into fluorine ions for selective etching of silicon compound films.

CHEMICAL AND PHYSICAL PROPERTIES

Appearance:	Colorless liquefiable flammable gas
Empirical Formula	CH ₃ F
Molecular Weight:	34.03 g/mol
Typical Analysis:	>99.9% by GC
Boiling Point	-78.4°C
Density	0.5786 kg/m ³ at 20°C
Vapor Pressure:	3.3 MPa
Solubility in Water	2.295 g/L
Critical Point	44.9°C and 6.28MPa

APPLICATIONS

- Selective Etchant for silicon compound films
- Fluorinating agent for chemical synthesis

PACKAGING AND SHIPPING

- Methyl Fluoride is shipped in UN approved cylinders of various sizes
- Various valve types can be used including:
 - CGA 350
 - CGA 720
 - Other valve types can be used

- Typical Package Sizes:

14kg

Customer provided cylinders



Iofina Chemical Inc.

1025 Mary Laidley Drive Covington, KY 41017

Phone (859)356-8000 Fax (859)356-8712

Web address: www.iofina.com



Technical Information

MEF 09/09

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- Fluoromethane is shipped in cylinders as a Class 2.1 Flammable Gas UN2454

For further information on product safety please consult the product MSDS or for additional product specifications consult sales specification sheet.



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