



Dimethyldimethoxysilane

AB111082 | CAS 1112-39-6

1. Product Identification

Chemical Name: Dimethyldimethoxysilane
Synonyms: Dimethoxydimethylsilane, DMDMS
Molecular Formula: C₄H₁₂O₂Si
Molar Mass: 120,25 g/mol

2. Physical and Chemical Properties

Purity: 97%
Appearance: Colorless, clear liquid
Boiling Point: approx. 78-81 °C
Density: approx. 0.860-0.870 g/cm³ at 25 °C
Refractive Index: 1.3690-1.3720 at 20 °C
Solubility: Soluble in organic solvents; hydrolyzes in water releasing methanol
The data represent typical values (no product specification)

3. Applications

- Intermediate
- Precursor in the production of polydimethylsiloxane (PDMS)
- Precursor in Sol-Gel-formulations
- Hydrophobic surface modification
- Coupling agent between to inorganic substrates e.g. glass fiber and SiO_x

4. Reactivity

Dimethoxysilyl-groups: Hydrolyze in contact with moisture, releasing methanol
Dimethyl-groups: creating a hydrophobic effect

5. Storage and Handling

Storage Conditions: Store in a cool, dry, and tightly sealed container. Protect from moisture and direct sunlight.
Avoid direct contact with moisture to prevent hydrolysis.
Methanol release caution; it is recommended to work in well-ventilated spaces

6. Available Quantities

AB111082 is available in following quantities:

➤ Shop AB111082 | 1112-39-6

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets (MSDS).
They are available on the abcr website

➤ https://abcr.com/de_en/ab111082