



Hexamethyldisiloxane

AB111176 | CAS 107-46-0

1. Product Identification

Chemical Name: Hexamethyldisiloxane

Synonyms: Bis(trimethylsilyl) ether, Bis(trimethylsilyl) oxide, HMDSO

Molecular Formula: C₆H₁₈OSi₂

Molar Mass: 162.42 g/mol

2. Physical and Chemical Properties

Purity: 98%

Appearance: Colorless, clear liquid

Boiling Point: approx. 99-100 °C

Density: approx. 0.76 g/cm³ at 25 °C

Refractive Index: 1.373-1.375 at 20 °C

Solubility: Soluble in organic solvents

The data represent typical values (no product specification)

3. Applications

- Precursor for chemical vapor deposition creating hydrophobic films on various substrates improving scratch resistance and surface modification (CVD) with organo-silanes
- Barrier coatings on PTFE-bottles
- Anti-reflex coatings
- Incorporating trimethylsilyl-groups in organic synthesis
- Solvent

4. Reactivity

Due to low vapor pressure easily vaporizable precursor for CVD processes

Acid catalyzed conversion of alcohols and carboxylic acids into silyl ethers and silyl esters

5. Storage and Handling

Storage Conditions: Store in a cool, dry, and tightly sealed container. Protect from moisture and direct sunlight.

It is recommended to work in well-ventilated spaces.

6. Available Quantities

AB111176 is available in following quantities:

- Shop AB111176 | CAS 107-46-0

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/ab111176