



## Hexamethyldisilazane

AB111175 | CAS 999-97-3

### 1. Product Identification

**Chemical Name:** Hexamethyldisilazane

**Synonyms:** Bis(trimethylsilyl)amine, Hexamethyldisilylamine, HMDS

**Molecular Formula:** C<sub>6</sub>H<sub>19</sub>NSi<sub>2</sub>

**Molar Mass:** 161,44 g/mol

### 2. Physical and Chemical Properties

**Purity:** 99.5%

**Appearance:** Colorless, clear liquid

**Odor:** Strong

**Boiling Point:** approx. 126 °C

**Density:** approx. 0,774 g/cm<sup>3</sup> at 25 °C

**Refractive Index:** 1.408 at 20 °C

The data represent typical values (no product specification)

### 3. Applications

- Precursor for CVD applications
- Silylating reagent e.g. for derivatization of alcohols, carboxylic acids, amines, amides, mercaptans, etc.)
- Endcapping of silanol groups in chromatography columns (efficient replacement for TMSCl)
- Protecting agent for alcohols, thiols, amines
- Adhesion promoter for photoresists – Solvent

### 4. Reactivity

Silylation reactions with protic reagents

Decomposition in PE-CVD-applications rendering Silicon carbonitride films on surfaces

Decomposition on contact with water and acids

### 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

AB111175 is available in following quantities:

- Shop AB111175 | CAS 999-97-3

### 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/ab111175](https://abcr.com/de_en/ab111175)