



## Tetramethylsilane

# AB111419 | CAS 75-76-3

### 1. Product Identification

Chemical Name: Tetramethylsilane

Synonyms: TMS

Molecular Formula: C<sub>4</sub>H<sub>12</sub>Si Molar Mass: 88.22 g/mol

## 2. Physical and Chemical Properties

Purity: 99.9% (NMR grade) Appearance: Colorless liquid Boiling Point: approx. 26 °C

**Density:** approx. 0.641- 0.648 g/cm³ at 25 °C **Refractive Index:** 1.3582 1.3588 at 20 °C

**Solubility:** Soluble in organic solvents, almost insoluble in water The data represent typical values (no product specification)

## 3. Applications

- Precursor for chemical vapor depostion (CVD) creating hard, scratch-resistant SiC-films
- Methylation agent in trans-metalation reactions
- Internal standard in NMR spectroscopy

## 4. Reactivity

Due to low vapor pressure easily vaporizable precursor for PE-CVD processes Deprotonation upon treatment with butyllithium to give trimethylsilylmethyl lithium, a widely used alkylating agent

## 5. Storage and Handling

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

## 6. Available Quantities

AB111419 is available in following quantities:

> Shop AB111419 | CAS 75-76-3

#### 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/ab111419

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