



# Methyltrimethoxysilane

AB111244 | CAS 1185-55-3

## 1. Product Identification

**Chemical Name:** Methyltrimethoxysilane  
**Synonyms:** (Trimethoxysilyl)methane, MTMS  
**Molecular Formula:** C<sub>4</sub>H<sub>12</sub>O<sub>3</sub>Si  
**Molar Mass:** 136,25 g/mol

## 2. Physical and Chemical Properties

**Purity:** 97%  
**Appearance:** Colorless, clear liquid  
**Odor:** Slight, characteristic  
**Boiling Point:** approx. 102–103 °C  
**Density:** approx. 0.955 g/cm<sup>3</sup> at 25 °C  
**Refractive Index:** 1.369–1.371 at 20 °C  
**Solubility:** highly miscible with standard organic solvents such as alcohols, hydrocarbons and acetone; hydrolyzes in water releasing methanol  
The data represent typical values (no product specification)

## 3. Applications

- Surface modification: creating a wide variety of inorganic surfaces and materials water-repellent
- Cross-linking agent for room temperature cured silicone rubber
- Heat resistant coatings
- Sol Gel Precursor

## 4. Reactivity

**Trimethoxysilyl-groups:** Hydrolyze in contact with moisture, releasing methanol and forming reactive Silanol-groups which bond to inorganic surfaces or interact as crosslinker

## 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

AB111244 is available in following quantities:  
> Shop AB111244 | CAS 1185-55-3

## 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/ab111244](https://abcr.com/de_en/ab111244)