



## (3-Aminopropyl)trimethoxysilane

AB110816 | CAS 13822-56-5

### 1. Product Identification

**Chemical Name:** (3-Aminopropyl)trimethoxysilane

**Synonyms:** 3-(Trimethoxysilyl)propylamine, ( $\gamma$ -Aminopropyl)trimethoxysilane

**Molecular Formula:** C<sub>6</sub>H<sub>17</sub>NO<sub>3</sub>Si

**Molar Mass:** 179.29 g/mol

### 2. Physical and Chemical Properties

**Purity:** 96%

**Appearance:** Colorless to slightly yellowish, clear liquid

**Odor:** Slight, characteristic

**Boiling Point:** approx. 206–210 °C

**Density:** approx. 1.01–1.03 g/cm<sup>3</sup> at 25 °C

**Refractive Index:** 1.422–1.425 at 20 °C

**Solubility:** Soluble in organic solvents; hydrolyzes in water releasing methanol  
The data represent typical values (no product specification)

### 3. Applications

- Surface modification of silicates, glass, and ceramics
- Adhesion promoter of polymers to inorganic surfaces
- Coupling agent,
- Curing agent
- Raw material for the synthesis of polysiloxane networks

### 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

**Amino-group:** Interacts with various organic functionalities such as 2K-polyurethane, polyamide, epoxy, melamine, phenol-formaldehyde, polyvinyl chloride

### 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

AB110816 is available in following quantities:

- > Shop AB110816 | CAS 13822-56-5

### 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/ab110816](https://abcr.com/de_en/ab110816)