



3-Aminopropyltriethoxysilane

AB110815 | CAS 919-30-2

1. Product Identification

Chemical Name: 3-Aminopropyltriethoxysilane

Synonyms: 3-(Triethoxysilyl)propylamine, (γ -Aminopropyl)triethoxysilane

Molecular Formula: C₉H₂₃NO₃Si

Molar Mass: 221,42 g/mol

2. Physical and Chemical Properties

Purity: 98%

Appearance: Colorless to slightly yellowish, clear liquid

Odor: Slight, characteristic

Boiling Point: approx. 217–220 °C

Density: approx. 0.94 g/cm³ at 25 °C

Refractive Index: 1.42 at 20 °C

Solubility: Soluble in organic solvents; hydrolyzes in water releasing ethanol

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
- Precursor for the synthesis of polysiloxane networks

4. Reactivity

Triethoxysilyl-groups: Hydrolyze in contact with moisture, releasing ethanol 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.

Ethanol release caution; it is recommended to work in well-ventilated spaces.

6. Available Quantities

AB110815 is available in following quantities:

- > Shop AB110815 | CAS 919-30-2

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/ab110815