



N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane

AB110806 | CAS 1760-24-3

1. Product Identification

Chemical Name: N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane

Synonyms: (Trimethoxysilylpropyl)ethylenediamine

Molecular Formula: C₈H₂₂N₂O₃Si

Molar Mass: 222.41 g/mol

2. Physical and Chemical Properties

Purity: 97%

Appearance: Colorless to slightly yellowish, clear liquid

Odor: Characteristic, amine-like

Boiling Point: approx. 140 °C

Density: approx. 1.01–1.03 g/cm³ at 25 °C

Refractive Index: approx. 1.447 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
- Adhesion promoter and primer for improving adhesion to substrates, i.e. photoresists
- Pre-treatment of fillers and pigments
- Glass fiber treatment

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

Diamino-group: Interacts with various organic functionalities such as 2K-polyurethane, polyamide, epoxy, melamine, phenol-formaldehyde, polyvinyl chloride, Hydrogen bonding to polymers as polycarbonate

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

AB110806 is available in following quantities:

- Shop AB110806 | CAS 1760-24-3

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/ab110806