

Tetraethoxysilane TEOS

CHEMICAL NAME	Tetraethoxysilane
CAS NUMBER	78-10-4
FUNCTION	Liquid silica precursor (27-29% of SiO ₂) for coatings and as a coupling agent.
TECHNICAL REQUIREMENTS	Purity (GC) min. 98%

GENERAL DATA	Molecular weight208,33 g/mol
	Colour..... colorless
	Smellspecific, pungent
	Solubility in water..... 8,6 – 1000 g/L
	Density at 20°C0.934 g/ml
	Melting temperature..... -77°C
	Boiling point167,3°C
	Vapor pressure (20°C)..... 20 Pa
	Explosive properties..... none
	Auto-ignition temperature > 222°C

- APPLICATION**
- As additive for zinc paints for anti-corrosion purposes
 - In the production of silica aerogels for isolation
 - In integrated units for dielectric layers of silica glass in electronic application
 - For the production of mesoporous silica and as coupling agent
 - Additive for electrolytes in batteries