

TEOS



Properties: TEOS (also known as Ethyl silicate) is a clear colorless liquid with a faint odor. It is soluble in organic solvents such as alcohols, ethers and hydrocarbons.

Uses: CVD/ALD silicon-based precursor; SiO₂ thin film deposition.

· Identifier

Chemical Formula	C ₈ H ₂₀ O ₄ Si
CAS No.	78-10-4
EINECS No.	201-083-8

· Physical and chemical properties

Molecular weight	208.33 g/mol	Flash point	50 °C	Reactivity	Flammable
Appearance	Colorless liquid	Melting point	-77 °C	Solubility	Soluble in hydrocarbon solvents and ethanol
Density	0.933 g/cm ³	Boiling point	168 °C	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	Unit	Specification
Al	ppb	≤0.200
Ca	ppb	≤0.500
Cu	ppb	≤0.200
Ga	ppb	≤0.050
Fe	ppb	≤0.300
Li	ppb	≤0.050
Mg	ppb	≤0.50
Mn	ppb	≤0.100
Mo	ppb	≤0.050
Ni	ppb	≤0.100
K	ppb	≤0.500
Ag	ppb	≤0.200
Na	ppb	≤0.800
Sn	ppb	≤0.050
Ti	ppb	≤0.050
Zn	ppb	≤0.400

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