



Properties: Tetramethylsilane, abbreviated as TMS, is a colorless transparent liquid, which is insoluble in water and cold concentrated sulfuric acid, soluble in many common organic solvents, such as ethanol and benzene.

Uses: ALD/CVD precursor material. Used as an aviation fuel and as an internal standard for nmr analytical instruments.

· Identifier

Chemical Formula	C ₄ H ₁₂ Si
CAS No.	75-76-3
EINECS No.	200-899-1

· Physical and chemical properties

Molecular weight	88.22 g/mol	Flash point	-27.2℃	Reactivity	Highly flammable and easily forms explosive mixtures with air
Appearance	Colorless transparent liquid	Melting point	-99℃	Solubility	Soluble in many common organic solvents, insoluble in water
Density	0.648 g/cm ³	Boiling point	28℃	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	Unit	Specification	Impurities	Unit	Specification
Al	ppb	≤2.00	Mn	ppb	≤0.50
Ca	ppb	≤10.00	Ni	ppb	≤0.50
Co	ppb	≤0.50	K	ppb	≤1.00
Cu	ppb	≤0.50	Ag	ppb	≤0.50
Ga	ppb	≤0.50	Na	ppb	≤2.00
Fe	ppb	≤5.00	Sn	ppb	≤0.50
Li	ppb	≤0.50	Ti	ppb	≤0.50
Mg	ppb	≤3.00	Zn	ppb	≤0.50

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