

SiCl₄

Properties: General Description: Silicon tetrachloride (SiCl₄) is a colorless, fuming liquid with a pungent odor. It is decomposed by water to hydrochloric acid with evolution of heat. It is miscible in benzene, chloroform, petroleum ether, ether and other organic solvents.

Uses: Preparation of high purity silicon, ethyl silicate, etc; epitaxial silicon etching gas; preparation of fused silica fibers.

· Identifier

Chemical Formula	SiCl ₄
CAS No.	10026-04-7
EINECS No.	233-054-0

· Physical and chemical properties

Molecular weight	169.9 g/mol	Flash point	57.6 °C	Reactivity	Moisture sensitive, reacts violently to water
Appearance	Colorless gas	Melting point	-70 °C	Solubility	Miscible in benzene, ether and other organic solvents.
Density	1.483 g/cm ³	Boiling point	57.6 °C	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	Unit	Specification
Co	ppb	< 0.1
Cr	ppb	< 0.3
Cu	ppb	< 0.1
Fe	ppb	< 1.0
Ge	ppb	< 0.1
Mn	ppb	< 0.1
Ni	ppb	< 0.3
V	ppb	< 0.1
B	ppb	< 0.1
P	ppb	< 0.1

VITAL MICRO-ELECTRONICS TECHNOLOGY CO., LIMITED

High Purity Materials Production Plant: No.16, Chuangxing Third Road, Qingyuan, Guangdong China 511517

Tel: 0763-3993123 **Fax:** (86) 020 - 83511907 **Website:** www.vitalchem.com

E-mail: semi_sales@vitalchem.com