

Silicon tetrachloride

CHEMICAL NAME	Silicon tetrachloride
EINECS	233-054-0
CAS NUMBER	10026-04-7
FUNCTION	Raw materials and intermediates for the production of silicon derivatives.
TECHNICAL DATA	Purity of SiCl ₄ min. 99.6 % Fe max. 8*10 ⁻⁴ % Ti max. 2*10 ⁻⁴ % Free chlorine max. 2*10 ⁻¹ %
INFORMATION DATA	Molecular weight 169,89 g/mol Colour colourless Smell irritant Water solubility reacts violently with water Density at 20°C 1.48 – 1.5 g/ml Melting temperature -68°C Boiling point 57,6°C Steam pressure at 20°C 25.9 kPa Explosive properties no explosive properties Auto-ignition temperature > 650°C
PROPERTIES AND APPLICATION	<ul style="list-style-type: none"> • Main raw material in the production of fumed silica. • Raw material for the production of ultrapure silicon tetrachloride for optical fibre preforms. • Precursor in the semiconductor production process. • Crosslinker for styrene butadiene rubber (SBR). • Metallurgical grade silicon precursor.