

Ultrapure trichlorosilane

CHEMICAL NAME	Trichlorosilane
CAS NUMBER	10025-78-2
FUNCTION	Raw material for polysilicon and epitaxy.
TECHNICAL REQUIREMENTS	Purity (GC) min. 99,99% Total metal impurity max. 0,001%
GENERAL DATA	Molecular weight 135,45 g/mol Colour..... colorless Smell pungent Solubility in water.....reacts violently with HCl and H2 emission Density at 20°C 1.34 g/ml Melting temperature..... -126.6°C Boiling point 31,9°C Vapor pressure (22.5°C)..... 72 kPa Explosive properties.....none, in contact with water emits H2 Auto-ignition temperature > 224°C
APPLICATION	In semiconductor field for deposition of silicon and silicon carbide by epitaxy.