

Trichlorosilane

TCS

Application

Trichlorosilane is a raw material for the production of polycrystalline silicon, the main series of silicone monomers, used in microelectronics.

CAS No. 10025-78-2

Molecular Formula HSiCl₃

Molecular Weight 135.45

Appearance & Property

Colorless volatile transparent liquid with a pungent odor, hydrolyzed by air moisture.

Typical product data

purity: ≥99.0%

density (ρ^{20} , g/cm³): 1.342

boiling point: 31.8°C

melting point: -126.6°C

Hazard Class

4.3

Package Class

I

Package

Steel drums, tank-containers.

Storage

Keep tightly closed in a dry, cold place. Good ventilation. Avoid sources of fire and hot surfaces.

Safety information

Extremely flammable. Vapors form with air explosive mixtures. Corrosive to eyes, skin and respiratory tract. Corrosive effects if swallowed. Inhalation of vapors may cause pulmonary edema, an asthmatic reaction. Use personal protective equipment. Work with the product only in the presence of ventilation. Do not allow the accumulation of static electricity. Avoid open fire.

More information on safety information is provided in the Safety Data Sheet.