

# Hexachlorodisilane (HCDS)

## Ultra High Purity Grade

### Product Specification Sheet

**CAS #: 13465-77-5****Boiling Point: 145 ° C****Molecular Weight: 268.88****Vapor Pressure: 12 Torr @ 40° C****Formula: Si<sub>2</sub>Cl<sub>6</sub>****Density: 1.56 g/ml @ 25° C****Melting Point: -1° C****Appearance: Clear colorless liquid****Assay (by GC) 99.9% minimum****Metals**

Aluminum	0,076
Antimony	<0.018
Arsenic	0,122
Barium	<0.003
Beryllium	<0.005
Bismuth	<0.004
Boron	<0.334
Cadmium	<0.005
Calcium	<0.043
Cerium	<0.003
Chromium	0,022
Cobalt	<0.005
Copper	<0.008
Gallium	<0.004
Germanium	<0.010
Gold	<0.006
Hafnium	<0.005
Indium	<0.004
Iridium	0,006
Iron	0,538
Lead	<0.004
Lithium	<0.006
Magnesium	0,008
Manganese	<0.038
Mercury	<0.032
Molybdenum	0,071
Nickel	<0.007
Niobium	<0.003
Palladium	<0.010

Platinum	<0.012
Potassium	<0.072
Rhenium	<0.003
Rhodium	<0.002
Rubidium	<0.003
Silver	<0.013
Sodium	<0.032
Strontium	<0.004
Tantalum	<0.003
Thallium	<0.003
Thorium	<0.004
Tin	<0.033
Titanium	9,46
Tungsten	<0.006
Uranium	<0.004
Vanadium	0,06
Zinc	<0.028
Zirconium	<0.004

<b>Storage</b>	Keep container tightly closed in a cool, dry, well-ventilated place. Handle and store under inert gas. Notes: Stable, but reacts violently with water. Moisture and shock sensitive. Incompatible with water, moisture, acids, strong bases, oxidizing agents, and alcohols.
<b>Special Requirements</b>	Handle and store under inert gas. Stable, but reacts violently with water. Moisture sensitive. May be shock sensitive. Incompatible with water, moisture, acids, strong bases, oxidizing agents, and alcohols.
<b>Uses</b>	HCDS can be used at relatively low temperatures; powerful deoxygenating agent; reducing agent; fiber optics, solar energy products; ALD process.
<b>Transport Information</b>	Proper Shipping Name: Chlorosilanes, Corrosive, n.o.s. (Hexachlorodisilane)  UN2987  Class: 8  Hazard Label: Corrosive  Packing Group: II