

# Hexachlorodisilane (HCDS)

Ultra High Purity Grade

## Product Specification Sheet - Lot #93102575

CAS #: 13465-77-5

Formula: Si<sub>2</sub>Cl<sub>6</sub>

Boiling Point: 145 ° C

Density: 1.56 g/ml @ 25° C

Molecular Weight: 268.88

Melting Point: -1° C

Vapor Pressure: 12 Torr @ 40° C

Appearance: Clear colorless liquid

Lot # 93102575

Manufactured: January 3, 2025 (03-01-2025)

### Metals in ppb

Assay (by GC) 99.9% minimum

### Metals

Aluminum	0.044
Antimony	<0.017
Arsenic	0.049
Barium	<0.003
Beryllium	<0.005
Bismuth	<0.004
Boron	<0.235
Cadmium	<0.004
Calcium	<0.043
Cerium	<0.001
Chromium	<0.025
Cobalt	<0.005
Copper	<0.005
Gallium	<0.005
Germanium	<0.010
Gold	<0.005
Hafnium	<0.005
Indium	<0.004
Iridium	0.003
Iron	0.295
Lead	<0.003
Lithium	<0.005

*Altogen Chemicals. Reference SOP5.115. Note: The information contained in these documents is confidential, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent.*

Magnesium	0.004
Manganese	<0.022
Mercury	<0.030
Molybdenum	0.038
Nickel	<0.005
Niobium	<0.004
Palladium	<0.015
Platinum	<0.009
Potassium	<0.066
Rhenium	<0.003
Rhodium	<0.001
Rubidium	<0.002
Silver	<0.012
Sodium	<0.025
Strontium	<0.003
Tantalum	<0.002
Thallium	<0.001
Thorium	<0.002
Tin	<0.030
Titanium	0.555
Tungsten	<0.005
Uranium	<0.002
Vanadium	0.006
Zinc	<0.027
Zirconium	<0.003

<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>	<p>Proper Shipping Name: Chlorosilanes, Corrosive, n.o.s. (Hexachlorodisilane)</p> <p>UN2987</p> <p>Class: 8</p> <p>Hazard Label: Corrosive</p> <p>Packing Group: II</p>

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