

Hexachlorodisilane (HCDS)

Ultra High Purity Grade

Product Specification Sheet

CAS #: 13465-77-5**Formula: Si₂Cl₆****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 # 92021625****Manufactured: July 2, 2021 (07-02-2021)****Assay (by GC) 99.9% minimum****Metals**

Aluminum	0.065
Antimony	<0.018
Arsenic	0.091
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	0.006
Iron	0.405
Lead	<0.004
Lithium	<0.006

Magnesium	0.006
Manganese	<0.035
Mercury	<0.030
Molybdenum	0.060
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	0.952
Tungsten	<0.005
Uranium	<0.002
Vanadium	0.009
Zinc	<0.027
Zirconium	<0.003

Storage	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.
Special Requirements	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.
Uses	HCDS can be used at relatively low temperatures; powerful deoxygenating agent; reducing agent; fiber optics, solar energy products; ALD process.
Transport Information	Proper Shipping Name: Chlorosilanes, Corrosive, n.o.s. (Hexachlorodisilane) UN2987 Class: 8 Hazard Label: Corrosive Packing Group: II