

Dichlorosilane SiH₂Cl₂

Synonym: Dichlorosilicon Dihydride

Physical Constants of Gas

Molecular Weight 101.01
 Specific Volume 3.83 CF/lb. (0.24 m³/kg)
 Boiling Point 46.8°F (8.2°C) 1 atm
 Gas Density 70°F 1 atm 4.27 kg/m³

Cylinder Data

CGA Valve Outlet 636, 678

Shipping Data

Shipping Class 175
 DOT/TC Name Dichlorosilane
 DOT Class ... 2.3 (Poisonous Gas) Hazard Zone B
 TC Class 2.3 (2.1) (8)
 Toxic Gas (Flammable Gas) (Corrosive)
 WHMIS Class AB1B6D1AE
 DOT Label Poison Gas, Flammable
 CAS Registry No. 4109-96-0
 UN No./ATA No. UN2189

Safety Information

Poisonous, flammable, corrosive liquid and gas under pressure.
 Flammability limits: lower 4.1%; upper 98.8%.
 Can form explosive mixture with air.
 Can cause eye, skin and respiratory tract burns.
 May be fatal if inhaled.

Specifications								Recommended Equipment		
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			lbs.	kg	psig	bar	lbs.	kg		
Electronic Grade 2	99.9%	44 NP	95	43	10	0.7	230	104	Application Dependent – Please Inquire	—
CO < 1 ppm		16NP	30	14	10	0.7	95	43		
CO ₂ < 1 ppm		7NP	15	7	10	0.7	43	20		
N ₂ < 1 ppm										
O ₂ < 1 ppm										
SiCl ₄ < 0.01%										
SiHCl ₃ < 0.05%										
SiH ₃ Cl < 0.1%										
THC (total C1–C3) < 1 ppm										
Resistivity > 400 Ohm-cm										
Metals*										
Al < 5 ppb										
As < 0.2 ppb										
B < 0.1 ppb										
Fe < 50 ppb										
P < 0.3 ppb										

* ppb wt liquid phase.

Most SCOTT™ gas handling and distribution equipment is available for same-day shipping.