

# Disilane Si<sub>2</sub>H<sub>6</sub>

Synonyms: Silicon Hexahydride, Disilicane

### Physical Constants of Gas

Molecular Weight ..... 62.22  
 Specific Volume ..... 5.4 CF/lb. (0.5 m<sup>3</sup>/kg)  
 Boiling Point ..... 5.9°F (-14.5°C) 1 atm  
 Gas Density 70°F 1 atm ..... 2.97 g/L

### Cylinder Data

CGA Valve Outlet ..... 350, 632

### Shipping Data

Shipping Class ..... 70  
 DOT/TC Name ..... Compressed Gas, Flammable,  
 n.o.s. (Disilane)  
 DOT/TC Class ..... 2.1 (Flammable Gas)  
 WHMIS Class ..... AB1D2BF  
 DOT Label ..... Flammable Gas  
 CAS Registry No. .... 1590-87-0  
 UN No./ATA No. .... UN1954

### Safety Information

Pyrophoric, flammable liquid and gas under pressure.  
 Flammability limits: please inquire.  
 Ignites on contact with air.

Specifications									Recommended Equipment	
Grade	Purity* (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			lbs.	kg	psig	bar	lbs.	kg		
Electronic Grade 2	99.998%	44	22	10	33	2	147	67	Application Dependent – Please Inquire	—
CH <sub>4</sub> < 1 ppm		16	8	4	33	2	84	38		
CO <sub>2</sub> < 1 ppm		7	4	2	33	2	29	13		
N <sub>2</sub> < 2 ppm										
O <sub>2</sub> + Ar < 1 ppm										
SiH <sub>4</sub> < 1000 ppm										
Chlorosilanes < 0.2 ppm										
Higher silanes < 50 ppm										
Siloxanes < 5 ppm										
Resistivity > 1000 Ohm-cm (n-type)										
Electronic Grade 1	99.995%	44	22	10	33	2	147	67	Application Dependent – Please Inquire	—
CH <sub>4</sub> < 2 ppm		16	8	4	33	2	84	38		
CO <sub>2</sub> < 2 ppm		7	4	2	33	2	29	13		
N <sub>2</sub> < 5 ppm										
O <sub>2</sub> + Ar < 2 ppm										
SiH <sub>4</sub> < 5000 ppm										
Higher silanes < 500 ppm										

\* Excluding mono and higher silanes.

We stock SCOTT™ regulators, manifolds, flowmeters, point-of-use panels, cabinets, valves and related equipment.