

# Silane SiH<sub>4</sub>

Synonyms: Silicon Tetrahydride, Monosilane

### Physical Constants of Gas

Molecular Weight ..... 32.13  
 Specific Volume ..... 12.1 CF/lb. (0.75 m<sup>3</sup>/kg)  
 Boiling Point ..... -50.99°F (-46.11°C) 1 atm  
 Gas Density 70°F 1 atm ..... 1.35 kg/m<sup>3</sup>

### Cylinder Data

CGA Valve Outlet ..... 350, 632

### Shipping Data

Shipping Class ..... 70  
 DOT Name ..... Silane  
 TC Name ..... Silane, Compressed  
 DOT/TC Class ..... 2.1 (Flammable Gas)  
 WHMIS Class ..... AB6D2B  
 DOT Label ..... Flammable Gas  
 CAS Registry No. .... 7803-62-5  
 UN No./ATA No. .... UN2203

### Safety Information

Pyrophoric and flammable high-pressure gas.  
 Flammability limits: lower 1.5%; upper 98%.  
 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	99.999%	49	33	15	1400	97	182	83	Application Dependent – Please Inquire	—	
		44	29	13	1370	94	167	76			
		30AL	17	7.5	1180	82	66	30			
		7	4	2	1180	82	33	15			
Electronic Grade 1	99.999%	49	33	15	1400	97	182	83	Application Dependent – Please Inquire	—	
		44	29	13	1370	94	167	76			
		30AL	17	7.5	1180	82	66	30			
		7	4	2	1180	82	33	15			

\* Excluding hydrogen.

Need advice on SCOTT™ equipment to safely deliver gas to your point-of-use? Call our Solutions Center at 800.217.2688.