



Hydrogen Fluoride

Description

Synonym: Anhydrous Hydrofluoric Acid
Formula: HF


Gas Data

Molecular Weight: 20.01
Density: 0.833 kg/m³ @ 21.1°C, 101.325 kPa
0.0518 lb/ft³ @ 70°F, 14.696 psia
Specific Volume: 1.20 m³/kg @ 21.1°C, 101.325 kPa
19.3 ft³/lb @ 70°F, 14.696 psia

Safety Information

Permissible Exposure Limit (TLV): 3 ppm
Property Statement: Incompatible with some metals, concrete, glass and ceramics

Shipping Information

CAS Registry Number: 7664-39-3
UN Number: UN 1052
ECCN Number: 1C350
DOT Proper Shipping Name: Hydrogen Fluoride, Anhydrous
DOT Classification: 8, Hazard Zone C (gas poisonous by inhalation)
DOT Label: INHALATION HAZARD 
POISON, CORROSIVE
TC Shipping Name: Hydrogen Fluoride, Anhydrous
TC Classification: 8, 6.1
TC Label: POISON, CORROSIVE

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure		Approximate Ship Weight	
		psia @ 70°F	kPa @ 21.1°C	lb	kg
1V	660	15.3	105	197	89
2L	660	15.3	105	99	45
3L	660	15.3	105	48	22
4	660	15.3	105	26	12

Standard Products with FLET and 100 psig N2 Pressure Pad

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Hydrogen Fluoride, Ultra High Purity 99.99%	G1534122	1V	100 lb	45.36 kg	Manual Control Valve	55A-660	417
	G1534145	2	25 lb	11.34 kg	Cross Purge	4775-660	422
	G1534150	3	9 lb	4.08 kg	Personal Monitor	IQ250	398
	G1534165	4	3.5 lb	1.59 kg	Leak Detector	8081A	404
					Detector Tube	8014-156S	392
					Cyl. Valve Wrench	TW-2	430

Standard items include a full length eductor tube (FLET) and 100 psi N₂ pressure pad.
A lot analysis is available on request. Please inquire for individual cylinder analysis.

Hydrogen Fluoride, CP Grade 99.0%	G1534322	1V	100 lb	45.36 kg	Manual Control Valve	55A-660	417
	G1534345	2	25 lb	11.34 kg	Tee Purge	4756-660	423
	G1534356	3	9 lb	4.08 kg	Personal Monitor	IQ250	398
	G1534365	4	3.5 lb	1.59 kg	Leak Detector	8081A	404
					Detector Tube	8014-156S	392
					Cyl. Valve Wrench	TW-2	430

Standard items include a full length eductor tube (FLET) and 100 psi N₂ pressure pad.
A Certificate of Conformance will be provided on request.
A lot analysis is available at a nominal charge.

With FLET but No Pressure Pad

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Hydrogen Fluoride, Ultra High Purity 99.99%	G1534122F	1V	100 lb	45.36 kg	Manual Control Valve	55A-660	417
	G1534140F	2	25 lb	11.36 kg	Cross Purge	4775-660	422
	G2670537F	3	9 lb	4.08 kg	Personal Monitor	IQ250	398
					Leak Detector	8081A	404
					Detector Tube	8014-156S	392
					Cyl. Valve Wrench	TW-2	430

This package configuration includes a full length eductor tube (FLET) but no pressure pad.
A lot analysis is available on request. Please inquire for individual cylinder analysis.



Hydrogen Fluoride (continued)

With FLET and No Pressure Pad (continued)

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Hydrogen Fluoride, CP Grade 99.0%	G2658223F	1V	100 lb	45.36 kg	Manual Control Valve	55A-660	417
	G1534356F	3	9 lb	4.08 kg	Cross Purge	4775-660	422
	G2681730F	4	3.5 lb	1.59 kg	Personal Monitor	IQ250	398
					Leak Detector	8081A	404
					Detector Tube	8014-156S	392
					Cyl. Valve Wrench	TW-2	430A

This package configuration includes a full length eductor tube (FLET) but no pressure pad.

Certificate of Conformance will be provided on request.

A lot analysis is available at a nominal charge.

No FLET and No Pressure Pad

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Hydrogen Fluoride, Ultra High Purity 99.99%	G1534120	1V	100 lb	45.36 kg	Manual Control Valve	55A-660	417
	G1534140	2	25 lb	11.34 kg	Cross Purge	4775-660	422
	G1534155	3	9 lb	4.08 kg	Personal Monitor	IQ250	398
	G1534160	4	3.5 lb	1.59 kg	Leak Detector	8081A	404
					Detector Tube	8014-156S	392
					Cyl. Valve Wrench	TW-2	430

A lot analysis is available on request. Please inquire for individual cylinder analysis.

Hydrogen Fluoride, CP Grade 99.0%	G1534320	1V	100 lb	45.36 kg	Manual Control Valve	55A-660	417
	G1534340	2	25 lb	11.34 kg	Cross Purge	4775-660	422
	G1534350	3	9 lb	4.08 kg	Personal Monitor	IQ250	398
	G1534360	4	3.5 lb	1.59 kg	Leak Detector	8081A	404
					Detector Tube	8014-156S	392
					Cyl. Valve Wrench	TW-2	430

A Certificate of Conformance will be provided on request.

A lot analysis is available at a nominal charge.