

Ammonia NH_3

Technical Data

Molecular Weight	17.03
Boiling Point	- 28.0° F
Specific Volume	22.6 cf/lb
Critical Temperature	270.4° F
Critical Pressure	1639 psia

Safety Data

Flammable Limits	15-28% in Air
Toxicity	TLV 25 ppm
Compatibility	Moisture promotes corrosion. Gas may combine with Mercury to form explosive compounds.

Shipping Data

DOT Name	Ammonia, Anhydrous
Hazard Class	2.2
ID No.	UN1005
DOT Label	Nonflammable Gas
CAS. No.	7664-41-7

Research

Specifications: Min. purity 99.999%
 CO < 1 ppm O₂ < 1 ppm
 CH₄ < 1 ppm H₂O < 5 ppm
 N₂ < 5 ppm

Product Code	Cylinder Size	Contents lbs.	Pressure psig @ 70° F	Valve Outlet CGA	Recommended Pressure Regulator		
					Type	Series	Page
AC963	KAL	30	114	660	Single-stage SS	Model 300	130
AC964	GAL	5	114	660			

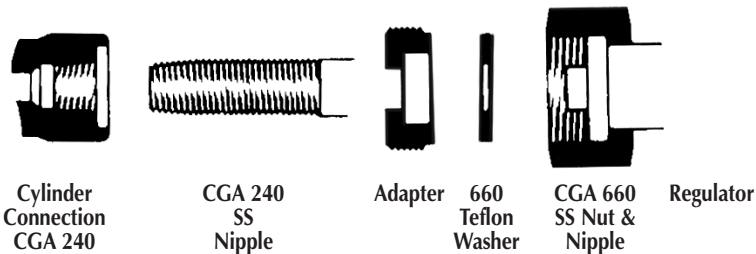
Anhydrous

Specifications: Min. purity 99.995%
 H₂O < 33 ppm
 Oil < 2 ppm

Equals or exceeds specifications for Refrigeration and Metallurgical grades. LINWELD typical analysis is 99.999%. Exceeds Federal specification 0-A-445B.

Product Code	Cylinder Size	Contents lbs.	Pressure psig @ 70° F	Valve Outlet CGA	Recommended Pressure Regulator		
					Type	Series	Page
LR9AA	150*	150	114	240	Single-stage SS	Model 300	130
LRQAA	Q	15	114	240			
LW292	LB	0.375	114	180	Lecture Bottle SS	Model 400	133

* Low pressure cylinder



When ordering a regulator for Anhydrous Ammonia service (CGA 240) specify the CGA inlet fitting number 30. (See page 130). This will include a CGA 240 SS nipple, CGA 660 SS adapter, CGA 660 Teflon Washer, and CGA 660 SS nut and nipple. The size 150 cylinder has a wide shoulder. A standard regulator inlet CGA 240 fitting will not permit the regulator to rotate and attach to the cylinder.