



## Industrial Grade wholesale high purity Cylinder Gas Nh3 Gas Ammonia

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Nh3
- Minimum Order Quantity: 1kg
- Price: US \$ 1/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 20000 Tons/Year



### Product Specification

- Product Name: Ammonia Gas
- Boiling Point: -33.5 °C
- Density: 0.73 Kg/M3
- Melting Point: -77.7 °C
- Cylinder Pressure: 3MPa/15MPa/20MPa
- Transport Package: 100L, 800L
- Specification: 100L, 800L
- Trademark: CMC
- Origin: China
- HS Code: 28141000
- Supply Ability: 20000 Tons/Year
- CAS No.: 7664-41-7
- Formula: Nh3
- EINECS: 231-635-3
- Constituent: Industrial Pure Air



### More Images



## Product Description

### Product Description

NH<sub>3</sub> refers to ammonia, a chemical compound composed of one nitrogen atom and three hydrogen atoms. Here are some key points about NH<sub>3</sub>:

Chemical Formula: NH<sub>3</sub>

Molecular Weight: 17.03 g/mol

Structure: NH<sub>3</sub> has a trigonal pyramidal molecular geometry, with the nitrogen atom at the center and the three hydrogen atoms forming a pyramid around it.

Physical Properties: Ammonia is a colorless gas at standard temperature and pressure. It has a pungent odor that is easily recognizable. It can be compressed into a liquid under moderate pressure or cooled to form a solid.

Production: Ammonia is commonly produced through the Haber-Bosch process, which involves the reaction of nitrogen gas (N<sub>2</sub>) and hydrogen gas (H<sub>2</sub>) in the presence of a catalyst at high temperatures and pressures.

Uses: Ammonia has numerous applications in various industries:

Fertilizer: Ammonia is a vital component in the production of nitrogen-based fertilizers, providing essential nitrogen to plants for growth.

Chemical Industry: It serves as a precursor for the production of various chemicals, including urea, nitric acid, ammonium nitrate, and ammonium sulfate.

Refrigeration: Ammonia is used as a refrigerant in industrial applications due to its high heat of vaporization and low environmental impact.

Cleaning and Bleaching: Ammonia is a common ingredient in household cleaning products and is used for its alkaline properties in removing stains and grease.

Pharmaceuticals: It is employed in the manufacture of certain medications and pharmaceutical intermediates.

Ammonia and Health: Ammonia is toxic and can be harmful when inhaled or when it comes into contact with the skin, eyes, or mucous membranes. It is important to handle ammonia with caution and in well-ventilated areas.

Environmental Impact: Ammonia can contribute to air and water pollution. It is a precursor to nitrogen oxides (NO<sub>x</sub>) and can contribute to eutrophication when released into bodies of water.

Ammonia Safety: When handling or storing ammonia, proper safety measures should be followed. This includes using appropriate personal protective equipment, ensuring proper ventilation, and adhering to regulations and guidelines for its storage and transportation.

#### Basic Info.

Transport Package:	800L, 100L	Melting Point	-77.7 °C
Trademark:	CMC	Boiling Point	-33.5 °C
Specification	99.80%	Production Capacity	20000 Tons/Year
Cylinder Pressure	3MPa/15MPa/20MPa	Valve	Qf-10

#### Product Description

Product Name	Ammonia
Chemical Formula	NH <sub>3</sub>
Hazard Class	2.3
Molecular Weight	17.031
UN	1005
Boiling Point(°C)	-33.43
Boiling Point(°F)	-241.17
Density(kg/m <sup>3</sup> )	0.728
Density(lb/ft <sup>3</sup> )	0.044

#### Process:

Industrial ammonia is purified by a filter into the electronic grade ultra-high purity ammonia. The annual output of ultra-high purity ammonia gas in Jinzhong is more than 10,000 tons.

#### Specification:

S-cylinder: 44L/47L	Valve: CGA660	Content: 21Kg
Y-cylinder: 440L	Valve: DISS720	Content: 230Kg
T-cylinder: 930L	Valve: DISS720	Content: 480Kg
ISO tank : 22.5Nm <sup>3</sup>	Valve: 1" VCR"	Content: 11.2T

#### Application:

Ammonia(NH<sub>3</sub>) is used in

1. metal treating operations as nitriding, carbo-nitriding, bright annealing, furnace brazing, sintering, sodium hydride descaling, atomic hydrogen welding, and other applications where protective atmospheres are required
2. hydrogenation of fats and oils as a convenient source of hydrogen
3. manufacturing of alkalis, ammonium salts, dyes, pharmaceuticals, cuprammonium rayon, and nylon
4. rubber industry for stabilization of raw latex to prevent coagulation during transportation and storage
5. as a catalyst in the phenol-formaldehyde condensation and also in the urea-formaldehyde condensation to make synthetic resin
6. produce proteins and can be used to improve the protein content of low quality hay
7. semiconductor industry
8. production of blue and white LEDs (Light Emitting Diodes)

9. In the field of novel optoelectronic materials, it is an important base material for GAN preparation by MOCVD technology. High purity ammonia or the preparation of nitrogen trifluoride, silicon nitride, the basic material, is the production of super high nitrogen raw gas. In addition, liquid ammonia is widely used in the semiconductor industry, the metallurgical industry, as well as other industries and scientific research that need to protect the atmosphere.

Detailed Photo









## Packaging & Shipping

Company

Profile



Shanghai Kemike Chemical Co., Ltd is staffed by trained personnel, combine many years experience in Gas industry .We supply cylinder gas, electronic gas, etc ., and the gas holder, panel, valves and fittings and other equipment, parts and engineering services to our customers in China and worldwide; The products are involved in various industrial fields, such as semiconductor chip, solar cell, LED, TFT-LCD, optical fiber, glass, laser, medicine , etc.. Our mission is to partner with our global customers to provide support, solutions and quality products that are innovative, reliable, and safe.



Our products mainly include: H<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, propane, acetylene, helium, laser mixed gas, SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, SiHCl<sub>3</sub>, SiCl<sub>4</sub>, NH<sub>3</sub>, CF<sub>4</sub>, NF<sub>3</sub>, SF<sub>6</sub>, HCL, N<sub>2</sub>O, doping mixed gas (TMB, PH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>) and other electronic gases.

SiCl <sub>4</sub>	NH <sub>3</sub>	NH <sub>3</sub>	CH <sub>3</sub> F	SiH <sub>4</sub>	Kr	H <sub>2</sub> S	WF <sub>6</sub>	F <sub>6</sub> +Cl <sub>2</sub>
4MS	C <sub>3</sub> F <sub>8</sub>	C <sub>3</sub> F <sub>8</sub>	TEOS	CH <sub>4</sub>	PH <sub>3</sub>	SF <sub>6</sub>	C <sub>2</sub>	HCl+Ne
CF <sub>4</sub>	C <sub>4</sub> F <sub>8</sub>	SiH <sub>2</sub>						TMB+H <sub>2</sub>
SiF <sub>4</sub>	C <sub>3</sub> H <sub>8</sub>	Cl <sub>2</sub>						He +As
BBr <sub>3</sub>	C <sub>3</sub> H <sub>6</sub>	DCE						Ge+Se
POCl <sub>3</sub>	N <sub>2</sub>	SO <sub>2</sub>						D+B
BCl <sub>3</sub>	D <sub>2</sub>	CO <sub>2</sub>						CO+NO
SiHCl <sub>3</sub>	CH <sub>2</sub> F <sub>2</sub>	HF						Ar+O <sub>2</sub>
TMAI	DMZn	DEZn						Xe+NO
AsH <sub>3</sub>	C <sub>2</sub> H <sub>4</sub>	C <sub>2</sub> H <sub>2</sub>						
GeH <sub>4</sub>	C <sub>2</sub> H <sub>6</sub>	B <sub>2</sub> H <sub>6</sub>						



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