

AMMONIA (NH₃)

Synonyms : Ammonia gas, Ammonia anhydrous, R717



Gas Description

Ammonia is a colourless, flammable and corrosive gas with an intensely irritating odour with a gas density at STP .73 kg/m³. Ammonia can be supplied in cylinders and via a liquified gas tank.

Typical applications :

Refrigeration (R-717)
Chemical synthesis
Nitriding agent: metals; semi-conductors
Diazo copying (blueprints), fertilizer
Neutralizing agent for acids in crude oil
Process agent in the manufacture of alkalis, ammonia salts, dyes, pharmaceuticals and nylon

Transport Regulations :

UN Number : 1005
Shipping Name : AMMONIA, ANHYDROUS
Class : 2.3 (8) Toxic Gas (corrosive)
CAS Number : 7664-41-7
Hazchem : 2RE

[Click here](#) for MSDS
[Click here](#) for more information

Physical Properties

Chemical symbol : NH₃
Molecular weight : 17.03
Specific gravity (Air=1) : 0.5970
Specific volume (m³/kg) : 1.40
Critical temperature : 132°C
Boiling point : -33.5°C

Melting Point : -78°C
Critical pressure (bar) : 113.03
Major hazards : Inhalation and Body Contact
Toxicity : TWA 25ppm STEL 35ppm
Flammability Range : 15 - 33.6% ref N°18
Odour : Pungent, Irritating

[Click here](#) for more information

Application

INDUSTRY

Chemicals

APPLICATION

Ammonia is the starting material for nitric acid manufacture.

Laboratories and Analysis

Ammonia is used in calibration gas mixtures for environmental emission monitoring, petrochemical industry, industrial hygiene monitors and trace impurity analyzers.

Electronics

Used in semiconductor manufacturing.

Environment

Ammonia is a refrigerating fluid used instead of chlorofluorocarbons in some refrigerators.

[Click here](#) for more information

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Ammonia

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)

Available Upon Request
Call For Supply Information

Recommended Equipment

Single stage chrome plated brass body regulator with a stainless steel diaphragm.

For further information [Contact](#) the specialty gases representative in your region.