

ANHYDROUS LIQUID AMMONIA

Chemical name: Molecular formula : NH_3
CAS No.: 7664-41-7
Abbreviation: anhydrous ammonia

DESCRIPTION

Ammonia is a chemical compound made of Nitrogen 82% and Hydrogen 18%. It is produced using Natural gas as the main feedstock. The other feeds required are Steam and Air. These feed materials undergo a series of reactions in the ammonia plant, before ammonia is produced in gaseous form. This is turned into liquid under pressure and cooling down.

Technical quality conditions:

Characteristics	MU	Values	Testing methods
NH ₃ content	%	Min. 99.5	G 12A
N ₂ content	%	Min. 81.9	G 12A
Water (H ₂ O)	%	Max. 0.5	G 12A
Oil	mg/Kg	Max. 10	G 12A
Impurities	%	Max. 0.01	G 12A

Specific properties:

pH at 20 °C: not determined
Melting point: - 78 °C
Ignition temperature: 630 °C
Density at 20 °C: 0.77 g/cm³

The specific properties present approximate values and contain general information, without being part of the technical quality conditions.

Applications:

Approximately 83% (as of 2004) of ammonia is used as fertilizers either as its salts, solutions or anhydrously. Ammonia is directly or indirectly the precursor to most nitrogen-containing compounds. Virtually all synthetic nitrogen compounds are derived from ammonia. An important derivative is nitric acid. Household ammonia is a solution of NH₃ in water (ammonium hydroxide) used as a general purpose cleaner for many surfaces.

Packaging and storage:

Keep container tightly sealed. Open and handle receptacle with care. Ensure good ventilation/exhaustion at the workplace.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Do not store together with acids.
Store away from oxidizing agents.

Safety information:

Before handling and using of product , the personnel must be aware of the dangers implied. This information is available in SDS and on the product label.

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.



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