

AQUA AMMONIA 19.5% SOLUTION

Description

Aqua Ammonia 19.5% is an aqueous solution of anhydrous ammonia in water manufactured to industrial specifications for use as a nitrogen-containing alkaline reagent and fertilizer material. It is a clear, colorless liquid with a characteristic ammonia odor and provides readily available nitrogen in a soluble form.

Handling & Storage

- Store aqua ammonia 19.5% in properly designed, vented tanks constructed of compatible, corrosion-resistant materials with appropriate secondary containment.
- Provide adequate ventilation in storage and handling areas to control airborne ammonia vapors and install appropriate monitoring and engineering controls.
- Protect tanks, piping, and valves from physical damage, overpressure, and temperature extremes; follow good industrial hygiene practices and avoid direct contact with liquid or vapors.
- Consult the TradeMark Nitrogen Safety Data Sheet (SDS) for detailed information on personal protective equipment, spill response, and emergency procedures.

Uses

- Used as a nitrogen source in liquid fertilizers and fertilizer blends where pH control and rapid plant-available nitrogen are desired.
- Used as a reagent in industrial water and wastewater treatment for pH adjustment, alkalinity control, and ammonia-based process chemistry.
- Used in various chemical manufacturing processes where ammoniacal alkalinity or ammonia is required as a reactant or intermediate.
- May be used as a reducing agent or scrubbing reagent in selected air pollution control and gas treatment applications where compatible with system design.

Shipping

AMMONIA SOLUTION (with more than 10% but not more than 35% ammonia), UN2672, Class 8, PG III
Aqua Ammonia 19.5% is typically shipped in bulk tank trucks, railcars, and approved portable containers designed for ammonia solutions in accordance with applicable transportation regulations. Shipments are made under appropriate hazard classification, labeling, and placarding requirements for ammonia solutions, and only trained personnel should load, unload, or handle transport equipment.

19.5%

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Chemical & Physical Properties

CAS Number	1339-21-6
pH	12.5-13.5
Molecular Weight	35.05 g/mol
Specific Gravity @ 60°F (15.5°C)	0.9290-0.9258
Viscosity	1.1-1.2 mPa·s @ 60°F (15.5°C)
Color	Water white
Odor	Sharp, pungent, strong ammonia
Weight per Gallon @ 60°F (15.5°C)	7.73 lbs/gal (0.93 kg/L)
Gallons per Ton	259

Note 80°F is design temp going into storage tanks

The data presented herein are believed to be accurate but are in no way guaranteed. TradeMark Nitrogen Corp. makes no warranties, express or implied, that any of the above data is fit for any particular use and expressly disclaims all oral warranties of any kind.



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