

AT A GLANCE

AMMONIUM NITRATE SOLUTION – 21%

Description

This clear liquid nitrogen fertilizer provides equal parts ammoniacal and nitrate nitrogen for soil application or fertigation.

Handling & Storage

Ammonium nitrate solutions should be stored in stainless steel or other corrosion resistant tanks. Pipe lines and fittings should be of similar materials. These solutions must be stored above their salting-out temperatures. Always conduct a jar test with new tank mixes to verify compatibility. See SDS Section 7 for safe handling and storage information.

Function of Nitrogen in Plants

- Mainly involved in photosynthesis
- Essential component of chlorophyll
- Promotes plant fruit set and vigor
- Supports protein and enzyme production

Symptoms of Nitrogen Deficiency

- Yellowing of leaves (oldest first)
- Poor/Stunted growth/reduced yield
- Overall less foliage canopy
- Premature leaf senescence and leaf drop

Shipping

Ammonium Nitrate Solution - 21% is classified as a non hazardous material by the US Department of Transportation.

Chemical Formula: NH_4NO_3
Nitrogen split: 50% ammoniacal - 50% nitrate

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 warranties of any kind.



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Chemical & Physical Properties

CAS Number	6484-52-2
pH	6.0 – 7.0
Molecular Weight	Not applicable – aqueous solution.
Specific Gravity @ 68°F (20° C)	1.287
Salt-Out Temperature	51°F (10.5°C)
Color	Clear
Odor	Little to no detectable odor
Weight per Gallon @ 68°F (20°C)	10.72 lbs/gal (1.285 kg/L)
Gallons per Ton	186.57
Dynamic viscosity @ 68°F (20°C)	6-10 cP

Typical Analysis

Total Nitrogen (N)	21.0%
10.5% Ammoniacal Nitrogen	
10.5% Nitrate Nitrogen	
Ammonium Nitrate (AN)	60%
Free Ammonia	< 0.02%
Water	40%

