

DIMMITT SULFUR PRODUCTS, Ltd.

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TECHNICAL BULLETIN

AMMONIUM THIOSULFATE, SOLUTION

IDENTIFICATION:

Name of product	Ammonium thiosulfate
Synonyms	Ammonium hyposulfite
Trade name	Thiovite®
Formula	[NH ₄] ₂ S ₂ O ₃
Molecular Weight	148.21
C.A.S. No.	7783-18-8

SHIPPING INFORMATION

DOT ID No.	Not applicable
DOT Classification	Not Regulated
Shipping Name	Ammonium thiosulfate solution
Containers	tank car, tank truck, drums

TYPICAL ANALYSIS

pH	7.5
Total Nitrogen	12.0%
Total Sulfur	26.0%
Ammonium Thiosulfate	58.0%
Ammonium Sulfate	1.0%
Ammonium Sulfite	3.0
Specific Gravity at 60° F	1.325 – 1.345
Density, lbs/gallon	11.05 – 11.22
Salt-out temperature	23° F
Boiling Point	206° F
Alkalinity (as NH ₄ OH)	0.3 – 1.5 max

MARKETS AND USES

- Photography
- Anti-chlorination
- Metal cleaning
- Oxygen scavenging for oilfield and water treatment
- Mining
- Plant nutrient

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