



TECHNICAL DATA SHEET

AMMONIA SOLUTION '890' GRADE

PRODUCT DATA AND TYPICAL PROPERTIES

Formula	: NH ₄ OH
Molecular weight	: 35.05
pH (20°C, 1%/w solution of '890' grade)	: 11.4 (typical)
Completely miscible with water.	

PRODUCT SPECIFICATION

Appearance		clear colourless liquid
Assay	% w/w as NH ₃	32.0 ± 0.5
Specific gravity (15.5°C)		0.8895 ± 0.0015
Chloride	% as Cl ⁻	≤ 0.0005
Residue on evaporation (at 105°C)	% as Mass	≤ 0.002
Arsenic	% as As	≤ 0.0001
Lead	% as Pb	≤ 0.0002

The product supplied to this specification meets the requirements for food additive E527 – EU 231/2012
The product is tested using our standard analytical methods.

HANDLING AND STORAGE

Shelf life:	Nominally 3 months. The product evolves a significant amount of ammonia gas which results in a progressive reduction in strength. The strength should be tested after the shelf life period to confirm suitability for use.
Storage Conditions:	In upright, sealed containers in a cool well ventilated place, out of direct sunlight, ideally in a warehouse. Store below 25°C. Store away from heat and sources of ignition.

STANDARD PACKAGING

Road tankers, according to transport regulations.
1000 litre intermediate bulk containers (IBCs).

MAIN USES

As a convenient source of ammonia used in a wide range of industries.
As a fertiliser.
As a nutrient in fermentation processes.
For reduction of NO_x in flue gases.

FOR HANDLING INFORMATION PLEASE CONSULT THE SAFETY DATA SHEET.

Product: AMMONIA SOLUTION 890
Document Reference: PS 10S-890

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