



## TECHNICAL DATA SHEET

# AMMONIA SOLUTION '912' GRADE

### PRODUCT DATA AND TYPICAL PROPERTIES

Formula	: NH <sub>4</sub> OH
Molecular weight	: 35.05
pH (20 °C, 1% <sup>v/v</sup> solution of '910' grade)	: 11.2 (typical)
Completely miscible with water.	

### PRODUCT SPECIFICATION

Appearance		clear colourless liquid
Assay	% w/w as NH <sub>3</sub>	24.0 – 24.9
Specific gravity (15.5°C)		0.9120 ± 0.0015
Chloride	% as Cl <sup>-</sup>	≤ 0.0005
Residue on evaporation (at 105°C)	% as Mass	≤ 0.002

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.  
200 litre polythene drums and 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<sub>x</sub> in flue gases.

FOR HANDLING INFORMATION PLEASE CONSULT THE SAFETY DATA SHEET.

Product: AMMONIA SOLUTION 912  
Document Reference: PS 10S-912

Issue No. 1

Issue Date: August 2014

**Page 1 of 1**

Information provided on this Technical Data Sheet is believed to be accurate and is given in good faith, but it is for the Customer to satisfy itself of the suitability of the Product for its own particular purpose. Accordingly, Esseco UK Limited gives no warranty as to the fitness of the Product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that such exclusion is prevented by law. Freedom under Patent, Copyright and Designs cannot be assumed.

**ESSECO UK LIMITED**, Calder Vale Road, Wakefield, West Yorkshire, WF1 5PH, England, UK  
Tel +44 (0) 1924 371 919, Fax +44 (0) 1924 290 408, [www.essecouk.com](http://www.essecouk.com)