



## TECHNICAL DATA SHEET

# AMMONIA SOLUTION '885' GRADE

### PRODUCT DATA AND TYPICAL PROPERTIES

|   |                      |
|---|----------------------|
| Formula                                 | : NH <sub>4</sub> OH |
| Molecular weight                        | : 35.05              |
| pH (20°C, 1%/w solution of '885' grade) | : 11.4 (typical)     |
| Completely miscible with water.         |                      |

### PRODUCT SPECIFICATION

|                                   |                          |                         |
|-----------------------------------|--------------------------|-------------------------|
| Appearance                        |                          | clear colourless liquid |
| Assay                             | % w/w as NH <sub>3</sub> | 33.5 ± 0.5              |
| Specific gravity (15.5°C)         |                          | 0.885 ± 0.001           |
| Chloride                          | % as Cl <sup>-</sup>     | ≤ 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<sub>x</sub> in flue gases.

FOR HANDLING INFORMATION PLEASE CONSULT THE SAFETY DATA SHEET.

Product: AMMONIA SOLUTION 885  
Document Reference: PS 10S-885

Issue No. 15

Issue Date: May 2017  
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