

# Specification

|                              |                    |             |            |
|------------------------------|--------------------|-------------|------------|
| Item number:                 | K298               |             |            |
| <b>Ammonium chloride</b>     |                    |             |            |
| ≥99.7 %, p.a., Ultra-quality |                    |             |            |
| CAS No.:                     | 12125-02-9         | print date: | 20.04.2017 |
| formula:                     | NH <sub>4</sub> Cl |             |            |
| density:                     | 1,52               |             |            |
| molecular weight:            | 53,49 g/mol        |             |            |

## Guarantee analysis

|                                      |            |
|--------------------------------------|------------|
| Assay (arg.)                         | ≥99,7 %    |
| pH-value (5 % solution)              | 4,5-5,5    |
| Water (KF)                           | ≤0,1 %     |
| Appearance of solution               | complies   |
| In H <sub>2</sub> O insoluble matter | ≤0,005 %   |
| Acidity or alkalinity                | complies   |
| Ash content (as SO <sub>4</sub> )    | ≤0,02 %    |
| Pyridine and homologues              | ≤0,001 %   |
| Bromide and Iodide (Br,I)            | complies   |
| Phosphate (PO <sub>4</sub> )         | ≤0,0002 %  |
| Nitrate (NO <sub>3</sub> )           | ≤0,001 %   |
| Sulphate (SO <sub>4</sub> )          | ≤0,002 %   |
| Iodide (I)                           | ≤0,001 %   |
| Heavy metals (as Pb)                 | ≤0,0005 %  |
| Arsenic (As)                         | ≤0,00005 % |
| Lead (Pb)                            | ≤0,0001 %  |
| Cadmium (Cd)                         | ≤0,0001 %  |
| Calcium (Ca)                         | ≤0,001%    |
| Chromium (Cr)                        | ≤0,0005 %  |
| Iron (Fe)                            | ≤0,0002 %  |
| Potassium (K)                        | ≤0,005 %   |
| Cobalt (Co)                          | ≤0,0005 %  |
| Copper (Cu)                          | ≤0,0005 %  |
| Magnesium (Mg)                       | ≤0,0005 %  |
| Nickel (Ni)                          | ≤0,0005 %  |
| Mercury (Hg)                         | ≤0,0001 %  |
| Zinc (Zn)                            | ≤0,0005 %  |

Our products are tested for laboratory use only.  
The stated information refers to the current status of product quality.  
We reserve the right to implement necessary changes.

**U. Jeckel**  
Quality Assurance

**S.Hildebrandt**  
Quality Management

*This document is computer printout and has therefore not been signed by hand.*

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Die Firma ist eine Kommanditgesellschaft mit Sitz in Karlsruhe, Reg. Gericht Mannheim HRA 100055. Persönlich haftende Gesellschafterin ist die Firma Roth Chemie GmbH mit Sitz in Karlsruhe, Reg. Gericht Mannheim HRB 100428. Vorsitzender des Aufsichtsrats: Eberhard Gaul  
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