

**PRODUCT  
SPECIFICATION**

**AMMONIUM HYDROGEN CARBONATE  
(AMMONIUM BICARBONATE) WITHOUT ANTI-CAKING AGENT**

Number of revisions: 17  
Date of last revision: 18.05.2023

**General Information:**

|   |                 |                         |
|---|-----------------|-------------------------|
| <b>Chemical formula:</b> NH <sub>4</sub> HCO <sub>3</sub> | CAS №:1066-33-7 | Neochim PLC code: 12-01 |
| <b>Molecular weight:</b> 79.06                            | EC №:213- 911-5 | E 503 (ii)              |

**Appearance:** fine white crystals with slight odour of ammonia

**Solubility:** freely soluble in water; insoluble in ethanol

**Use:** raw material in chemical synthesis; in formulation of mixture; raising agent in food industry

**Specifications:**

| <b>Indices</b>   | <b>Typical Values</b> | <b>Limit Values</b> |
|--|-----------------------|---------------------|
| Ammonium bicarbonate (NH <sub>4</sub> HCO <sub>3</sub> ) content, %  | 99.7                  | min. 99.4           |
| Ammonia (NH <sub>3</sub> ) content, %  | 21.4 - 21.5           | min. 21.4           |
| Non-volatile residue, %  | 0.00                  | max. 0.05           |
| Sulfur compounds (such as sulphate (SO <sub>4</sub> )), mg/kg  | complies              | max. 30             |
| Chlorides content, mg/kg   | complies              | max. 30             |
| Iron (Fe) content, mg/kg   | complies              | max. 5              |
| Lead (Pb) content, mg/kg   | complies              | max. 2              |
| Arsenic (As) content, mg/kg  | complies              | max. 3              |
| Mercury (Hg) content, mg/kg  | complies              | max. 1              |
| Ethylene oxide (sum of ethylene oxide and 2 – chloro-ethanol / ethylene oxide + 0.55*2 chloro-ethanol /, expressed as ethylene oxide), mg/kg | complies              | max.0.1             |
| pH of 5 % aqueous solution   | 7.7                   | 7.5 to 8.5          |
| Bulk density, g/l  | approx. 900           | -                   |

**Packaging:**

- one layer bags (polyethylene - LDPE) 25 kg net

Date of issue: 10.12.1999

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