



# AMMONIUM BICARBONATE FFQ 035

## PHYSICO-CHEMICAL CHARACTERISTICS

Formula	: NH <sub>4</sub> HCO <sub>3</sub>														
Molecular weight	: 79.06														
Synonyms	: Ammonium hydrogen carbonate.														
Bulk density	: 0.85 kg/dm <sup>3</sup> approx.														
pH (20°C, 5%)	: 8.0 approx.														
Water solubility	: increases with the temperature according to the following table:														
	<table border="1"> <thead> <tr> <th>t °C</th> <th>10</th> <th>20</th> <th>30</th> <th>40</th> <th>50</th> <th>60</th> </tr> </thead> <tbody> <tr> <td>g NH<sub>4</sub>HCO<sub>3</sub>/100 g soln</td> <td>13.9</td> <td>17.8</td> <td>22.1</td> <td>26.8</td> <td>31.6</td> <td>37.2</td> </tr> </tbody> </table>	t °C	10	20	30	40	50	60	g NH <sub>4</sub> HCO <sub>3</sub> /100 g soln	13.9	17.8	22.1	26.8	31.6	37.2
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Notice	: contains anti-caking agent magnesium carbonate (E504i).														

## QUALITATIVE CHARACTERISTICS

Appearance of the product	fine white crystalline powder	
Assay	% NH <sub>4</sub> HCO <sub>3</sub>	> 99.5
Magnesium carbonate	% MgCO <sub>3</sub>	< 0.35
Non-volatile matter	%	< 0.35
Chloride	mg/kg as Cl	< 30
Sulphate	mg/kg as SO <sub>4</sub>	< 30
Iron	mg/kg as Fe	< 3
Heavy metals	mg/kg as Pb	< 3
Arsenic	mg/kg as As	< 1
Lead	mg/kg as Pb	< 1
Cadmium	mg/kg as Cd	< 1
Mercury	mg/kg as Hg	< 0.1

The product complies specifications of: Regulation EU 231/2012 (food additives), FCC XII (2020)

The indicated values are intended as determined according to our standard analysis methods.

## STANDARD PACKAGING

25 kg polyethylene bags  
Various sizes bulk bags on pallets, shrinkwrapped

## STORAGE

Store the product in the original container in a dry, cool and well-ventilated place away from direct heat or sunlight; store at temperature not exceeding 30°C.

If heated over 60°C it decomposes developing ammonia, carbon dioxide and water vapour.

Caking/lump formation can occur with this product; however, it does not deteriorate either chemically nor biologically.

## MAIN USES

In food industry as additive (E503ii) as chemical leavening/raising agent.

In chemical synthesis.

As a blowing agent to introduce voids and reduce densities.

FOR HANDLING INFORMATION PLEASE CONSULT THE SAFETY DATA SHEET.

THIS TECHNICAL DATA SHEET IS IDENTIFIED AS **ABC 035 1 (0620) E2**