



AMMONIUM BICARBONATE PURE

PHYSICO-CHEMICAL CHARACTERISTICS

Formula	: NH ₄ HCO ₃						
Molecular weight	: 79.06						
Synonyms	: Ammonium hydrogen carbonate.						
Raw materials	: Ammonia (> 21.4% NH ₃) and carbon dioxide (> 55.3% CO ₂).						
Bulk density	: 0.85 kg/dm ³ approx.						
pH (20°C, 5%)	: 8.0 approx.						
Water solubility	: increases with the temperature according to the following table:						
	t °C	10	20	30	40	50	60
	g NH ₄ HCO ₃ /100 g soln	13.9	17.8	22.1	26.8	31.6	37.2
Notice	: tendency to cake.						

QUALITATIVE CHARACTERISTICS

Appearance of the product	fine white crystalline powder	
Assay	% NH ₄ HCO ₃	> 99.9
Non-volatile matter	%	< 0.01
Residue on ignition	%	< 0.01
Chloride	mg/kg as Cl	< 30
Sulphate	mg/kg as SO ₄	< 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 PUR 1 (0121) E3**