Ammonium Bicarbonate

Specification code AB/1/PB/E

Date 13/12/2024

Product description

Apperance of the product	White crystalline powder
Application	Used in the baking industry as a raising agent
Synonyms	Ammonium hydrogen carbonate
Molecular formula	NH_4HCO_3
Molecular Weight	79.06
Raw materials	Ammonia (> 21.1% NH3) and carbon dioxide (> 55% CO2)
Notice	The product is a micture of ammonium bicarbonate (E503ii) and anti-caking (E504i)

Physical data

Realively stable at room temperaturę. Completely decomposed at 60°C and above. Rate of decomposition increases with temperaturę. Decomposition products are ammonia (NH3), carbon dioxide (CO2) and water vapor (H2O)

Heat os solution	Endotherm
Particle Size	0,1 – 0,7 mm
Bulk density	Approx. 0,96 kg/l vibrated Approx. 0,85 kg/l un vibrated
pH	7,5-8,5 approx. (by 5 % weight solution at room temperature

Qualitative Characteristics

Ammonium Bicarbonate (NH4HCO3) E503ii	99.0 – 99,4 %
Non-volatile matter	≤ 0,9
Magnesium carbonate E504i	0,02-0,9%
Iron (Fe)	< 3 ppm
Arsenic (As)	< 1 ppm
Lead (Pb)	< 1 ppm
Cadmium (Cd)	< 1 ppm
Mercury (Hg)	< 0,05 ppm
Antimony (Sb)	<,5 ppm
Chromium (Cr)	< 1 ppm
Copper (Cu)	< 0,5 ppm
Tin (Sn)	< 1 ppm
Zinc (Zn)	< 2 ppm
Heavy metals as Pb	< 3 ppm
Chloride as Cl	< 10 ppm
Sulphate as SO4	< 30 ppm
Particle size	< 0,5 mm

Standard packaging

Small bags/Big Bags

Handling and Storage

Ammonium Bicarbonate should be stored in a dry, cool and well-ventilated area (away from acids), allowing air to circulate between the bags. Keep storage temperaturę below 86° F (30°C). Caking/lump formation can occur with this product; however, it does not deteriorate either chemically nor biologically.

Our certificates

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