

Product Specification

AMMONIUM CARBONATE FOOD GRADE (E 503i)

PRD-No.: 30042216

1. General

This product is produced by BASF SE, Ludwigshafen, Germany. BASF SE, Ludwigshafen, Germany is certified according to ISO 9001. An HACCP-Concept (EC) No. 852/2004 is implemented. The requirements according to "FDA: Current Good Manufacturing Practice, Hazard Analysis, and Risk-Based Preventive Controls for Human Food; 21 CFR Part 117", as well as "ISO 22000, ISO/TS 22002-1 and additional FSSC 22000 requirements" are fulfilled.

Appearance:	Fine, colourless crystals with a strong ammoniacal odour. Product cakes during storage
Chemical Name:	Ammonium carbonate is an equivalent mixture of ammonium carbamate $\text{NH}_2\text{CO}_2\text{NH}_4$ and ammonium hydrogen carbonate NH_4HCO_3 .
CAS-Nr.:	10361-29-2
EINECS-Nr.:	233-786-0

2. Properties

Parameter	Unit	Specification	Test method
NH ₃	g/100 g	30.5 – 34.0	Titrimetry
CO ₂	g/100 g	min. 55.6	calculated
Non volatiles	mg/kg	max. 100	FCC-method
Heavy metals (as Pb)	mg/kg	max. 3	FCC-method
Chloride	mg/kg	max. 30	FCC-method
Sulfate	mg/kg	max. 30	FCC-method
Fe	mg/kg	max. 3	ICP-OES
As	mg/kg	max. 1	ICP-OES
Cd	mg/kg	max. 1	ICP-OES
Pb	mg/kg	max. 1	ICP-OES
Hg	mg/kg	max. 0.1	ICP-OES
Residue on ignition	g/100 g	max. 0.1	Gravimetry

Ammonium carbonate fulfils the purity criteria for food additives set by Directive (EU) 231/2012, the Joint FAO/WHO Expert Committee on Food Additives (JECFA) as well as the one contained in the Food Chemical Codex. It also fulfils the effective specification limits of the US Pharmacopeia. For use as a food additive, ammonium carbonate has a limited license according to E-No. 503i. May contain process-related particles up to 500 µm, which do not affect the quality of the product.

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.