

Although not included in any pharmacopeias, a specification for ammonium alginate is included in the *Food Chemicals Codex* (FCC),⁽¹⁴⁾ see Table I.

19 Specific References

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- 14 *Food Chemicals Codex*. [online] Bethesda, MD: United States Pharmacopeia. <http://publications.usp.org> (accessed 31 March 2017).

20 General References

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21 Authors

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22 Date of Revision

4 February 2014.

Ammonium Chloride

1 Nonproprietary Names

BP: Ammonium Chloride

PhEur: Ammonium Chloride

USP–NF: Ammonium Chloride

2 Synonyms

Ammonii chloridum; ammonium muriate; E510; sal ammoniac; salmiac.

3 Chemical Name and CAS Registry Number

Ammonium chloride [12125-02-9]

4 Empirical Formula and Molecular Weight

NH₄Cl 53.49

5 Structural Formula

See Section 4.

6 Functional Category

Acidulant.

7 Applications in Pharmaceutical Formulation or Technology

Ammonium chloride is used as an acidifying agent in oral formulations and as a food additive.

8 Description

Ammonium chloride occurs as colorless, odorless crystals or crystal masses. It is a white, granular powder with a cooling, saline taste. It is hygroscopic and has a tendency to cake.

9 Pharmacopeial Specifications

See Table I.

Table I: Pharmacopeial specifications for ammonium chloride.

Test	PhEur 9.2	USP 40–NF 35 S1
Identification	+	+
Characters	+	—
Appearance of solution	+	—
Acidity or alkalinity	+	+
Loss on drying	≤1.0%	≤0.5%
Residue on ignition	—	≤0.1%
Thiocyanate	—	+
Bromides and iodides	+	—
Sulfates	≤150 ppm	—
Sulfated ash	≤0.1%	—
Calcium	≤200 ppm	—
Iron	≤20 ppm	—
Heavy metals	—	≤0.001%
Assay (dried basis)	99.0–100.5%	99.5–100.5%