

D. MONOGRAPHS

Ammonium Bicarbonate

Ammonium Hydrogen Carbonate

monoammonium hydrogen carbonate [1066-33-7]

Content Ammonium Bicarbonate contains 20.0 - 30.0% of ammonia ($\text{NH}_3 = 17.03$).

Description Ammonium Bicarbonate occurs as white or translucent crystals, crystalline powder, or lumps, having an odor of ammonia.

Identification Ammonium Bicarbonate responds to all tests for Ammonium Salt and for Bicarbonate as described in the Qualitative Tests.

Purity (1) Clarity of solution Almost clear.

Proceed as directed under Purity (1) for Ammonium Carbonate.

(2) Chloride Not more than 0.0035% as Cl.

Proceed as directed under Purity (2) for Ammonium Carbonate.

(3) Heavy metals Not more than 10 $\mu\text{g/g}$ as Pb.

Proceed as directed under Purity (3) for Ammonium Carbonate.

(4) Arsenic Not more than 4.0 $\mu\text{g/g}$ as As_2O_3 .

Proceed as directed under Purity (4) for Ammonium Carbonate.

Residue on Ignition Not more than 0.010% (10 g).

Assay Proceed as directed under the Assay for Ammonium Carbonate.

1 ml of 0.1 mol/l hydrochloric acid = 1.7031 mg of NH_3