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Strong Ammonium Acetate Solution

General Notices

DEFINITION

Ammonium Bicarbonate	470 g
Glacial Acetic Acid	453 g
Strong Ammonia Solution	A sufficient quantity
Purified Water, freshly boiled and cooled	Sufficient to produce 1000 mL

Extemporaneous preparation

The following directions apply.

Dissolve the Ammonium Bicarbonate by adding gradually to the Glacial Acetic Acid diluted with 350 mL of Purified Water. Add Strong Ammonia Solution until 0.05 mL of the resulting solution diluted with 0.5 mL of *water* gives a full blue colour with 0.05 mL of *bromothymol blue solution R3* and a full yellow colour with 0.05 mL of *thymol blue solution*; about 100 mL of Strong Ammonia Solution is required. Add sufficient Purified Water to produce 1000 mL.

Content of ammonium acetate, $C_2H_7NO_2$

55.0 to 60.0% w/v.

TESTS

Acidity or alkalinity

pH of a 10% v/v solution, 7.0 to 8.0, Appendix V L.

Weight per mL

1.085 to 1.095 g, Appendix V G.

ASSAY

To 5 mL add 50 mL of *water* and 12 mL of *formaldehyde solution* previously neutralised to *phenolphthalein solution R1* and titrate with *1M sodium hydroxide VS* using *phenolphthalein solution R1* as indicator. Each mL of *1M sodium hydroxide VS* is equivalent to 77.08 mg of $C_2H_7NO_2$.

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STORAGE

Strong Ammonium Acetate Solution should be kept in lead-free glass containers.

LABELLING

When ammonium acetate solution or dilute ammonium acetate solution is prescribed or demanded, Strong Ammonium Acetate Solution diluted to eight times its volume with freshly boiled and cooled Purified Water, shall be dispensed or supplied.