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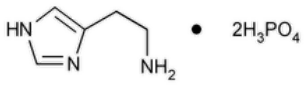
Histamine Phosphate



$C_5H_9N_3 \cdot 2H_3PO_4$ 307.14

1*H*-Imidazole-4-ethanamine, phosphate (1:2).

Histamine phosphate (1:2) CAS RN®: 51-74-1; UNII: QWB37T4WZZ.

» Histamine Phosphate contains not less than 98.0 percent and not more than 101.0 percent of $C_5H_9N_3 \cdot 2H_3PO_4$, calculated on the dried basis.

Packaging and storage—Preserve in tight, light-resistant containers.

Identification—

A: Dissolve 0.10 g in a mixture of 7 mL of water and 3 mL of 1 N sodium hydroxide, and add the solution to a mixture of 50 mg of sulfanilic acid, 10 mL of water, 2 drops of hydrochloric acid, and 2 drops of sodium nitrite solution (1 in 10): a deep red color is produced.

B: Dissolve 50 mg in 5 mL of hot water, add a hot solution of 50 mg of picrolonic acid in 10 mL of alcohol, and allow to crystallize. Filter the crystals with suction, wash with a small amount of ice-cold water, and dry at 105° for 1 hour: the crystals so obtained melt between 250° and 254°, with decomposition.

C: A solution (1 in 10) responds to the tests for *Phosphate* ⟨191⟩.

Loss on drying ⟨731⟩—Dry it at 105° for 2 hours: it loses not more than 3.0% of its weight.

Assay—Dissolve about 150 mg, accurately weighed, of Histamine Phosphate in 10 mL of water. Add 5 mL of chloroform and 25 mL of alcohol, then add 10 drops of thymolphthalein TS, and titrate with 0.2 N sodium hydroxide VS. Each mL of 0.2 N sodium hydroxide is equivalent to 15.36 mg of $C_5H_9N_3 \cdot 2H_3PO_4$.

Auxiliary Information - Please check for your question in the FAQs before contacting USP.

Topic/Question	Contact	Expert Committee
HISTAMINE PHOSPHATE	Documentary Standards Support	SM32020 Small Molecules 3

Chromatographic Database Information: Chromatographic Database

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