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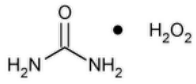
Carbamide Peroxide



$CH_6N_2O_3$ 94.07

Urea, compd. with hydrogen peroxide (1:1).

Urea compound with hydrogen peroxide (1:1) CAS RN®: 124-43-6; UNII: 31PZ2VAU81.

» Carbamide Peroxide contains not less than 96.0 percent and not more than 102.0 percent of $CH_6N_2O_3$.

Packaging and storage—Preserve in tight, light-resistant containers, and avoid exposure to excessive heat.

Identification—

A: Mix 1 mL of a solution (1 in 10) of it with 1 mL of nitric acid: a white, crystalline precipitate is formed.

B: A solution of it (1 in 10) responds to the tests for *Peroxide* ⟨191⟩.

Assay—Transfer about 100 mg of Carbamide Peroxide, accurately weighed, to a 500-mL iodine flask with the aid of 25 mL of water, add 5 mL of glacial acetic acid, and mix. Add 2 g of potassium iodide and 1 drop of ammonium molybdate TS, insert the stopper, and allow to stand in the dark for 10 minutes. Titrate the liberated iodine with 0.1 N sodium thiosulfate VS, adding 3 mL of starch TS as the endpoint is approached. Each mL of 0.1 N sodium thiosulfate is equivalent to 4.704 mg of $CH_6N_2O_3$.

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

Topic/Question	Contact	Expert Committee
CARBAMIDE PEROXIDE	Documentary Standards Support	SM52020 Small Molecules 5

Chromatographic Database Information: Chromatographic Database

Most Recently Appeared In:
Pharmacopeial Forum: Volume No. Information currently unavailable

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