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Hypophosphorous Acid, 50 Percent

(*Hypophosphorous Acid*), HPH_2O_2 66.00 CAS RN[®]: 6303-21-5.—A colorless to faintly yellow liquid. Miscible with water and with alcohol.

- **ASSAY:** Accurately weigh about 4 mL, dilute with 25 mL of water, add methyl red TS, and titrate with 1 N sodium hydroxide VS: each mL of 1 N sodium hydroxide is equivalent to 66.00 mg of HPH_2O_2 . Not less than 48% is found.
- **CHLORIDE:** Add 0.2 mL to a mixture of 10 mL of silver nitrate TS and 5 mL of nitric acid, and heat until brown fumes are no longer evolved: any white, insoluble residue remaining is negligible.
- **PHOSPHATE:** Dilute 1 mL with water to 50 mL, render alkaline with ammonia TS, filter if a precipitate is formed, and add to the filtrate 5 mL of magnesia mixture TS: not more than a slight precipitate is formed within 5 minutes.
- **SULFATE** (Reagent test, *Method I*): Dilute 1 mL with water to 50 mL: 20 mL of the solution shows not more than 0.2 mg of SO_4 .

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
HYPOPHOSPHOROUS ACID, 50 PERCENT	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

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