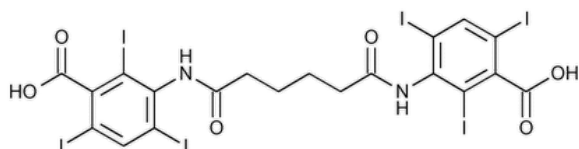


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Iodipamide



$C_{20}H_{14}I_6N_2O_6$ 1139.76

Benzoic acid, 3,3'-(1,6-dioxo-1,6-hexanediyl)diimino]bis[2,4,6-triiodo-

3,3'-(Adipoyldiimino)bis[2,4,6-triiodobenzoic acid] CAS RN®: 606-17-7; UNII: TKQ858A3VW.

» Iodipamide contains not less than 98.0 percent and not more than 102.0 percent of $C_{20}H_{14}I_6N_2O_6$, calculated on the anhydrous basis.

Packaging and storage—Preserve in well-closed containers. Store at 25°, excursions permitted between 15° and 30°.

USP REFERENCE STANDARDS (11) —

[USP 3-Amino-2,4,6-triiodobenzoic Acid RS](#)

$C_7H_4I_3NO_2$

514.83

[USP Iodipamide RS](#)

Identification —

A: It responds to the [Thin-Layer Chromatographic Identification Test \(201\)](#), the test solution and the Standard solution being prepared at a concentration of 1 mg per mL in an 0.8 in 1000 solution of sodium hydroxide in methanol, the solvent mixture being a mixture of chloroform, methanol, and ammonium hydroxide (20:10:2), and short-wavelength UV light being used to locate the spots.

B: Heat about 500 mg in a suitable crucible: violet vapors are evolved.

WATER DETERMINATION, Method I (921): not more than 1.0%.

RESIDUE ON IGNITION (281): not more than 0.1%.

Free aromatic amine—Transfer 1.0 g to a 50-mL volumetric flask, and add 12.5 mL of water and 2.5 mL of 1 N sodium hydroxide. To a second 50-mL volumetric flask transfer 4 mL of water, 10 mL of 0.1 N sodium hydroxide, and 1.0 mL of a Standard solution prepared by dissolving a suitable quantity of [USP 3-Amino-2,4,6-triiodobenzoic Acid RS](#) in 0.1 N sodium hydroxide (use 0.2 mL of the 0.1 N sodium hydroxide for each 5.0 mg of the Reference standard) and by diluting with water to obtain a solution having a known concentration of 500 µg per mL. Proceed as directed in the test for *Free aromatic amine* under [Diatrizoate Meglumine](#), beginning with “To a third 50-mL volumetric flask add 5 mL of water.”

Other requirements—It meets the requirements of the tests for *Iodine and iodide* under *Diatrizoic Acid*.

Assay—Transfer about 300 mg of Iodipamide, accurately weighed, to a glass-stoppered, 125-mL conical flask, add 30 mL of 1.25 N sodium hydroxide and 500 mg of powdered zinc, connect the flask to a reflux condenser, and reflux the mixture for 30 minutes. Cool the flask to room temperature, rinse the condenser with 20 mL of water, disconnect the flask from the condenser, and filter the mixture. Rinse the filter and the flask thoroughly, adding the rinsings to the filtrate. Add 5 mL of glacial acetic acid and 1 mL of tetrabromophenolphthalein ethyl ester TS, and titrate with 0.05 N silver nitrate VS until the yellow precipitate just turns green. Each mL of 0.05 N silver nitrate is equivalent to 9.498 mg of $C_{20}H_{14}I_6N_2O_6$.

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

Topic/Question	Contact	Expert Committee
IODIPAMIDE	Documentary Standards Support	SM42020 Small Molecules 4

Chromatographic Database Information: [Chromatographic Database](#)

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