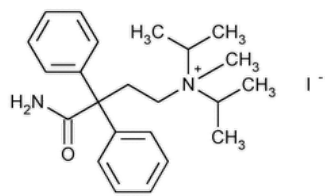


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# Isopropamide Iodide



$C_{23}H_{33}IN_2O$  480.43  
Benzenepropanaminium,  $\gamma$ -(aminocarbonyl)-*N*-methyl-*N,N*-bis(1-methylethyl)- $\gamma$ -phenyl-, iodide.  
(3-Carbamoyl-3,3-diphenylpropyl) diisopropylmethylammonium iodide CAS RN<sup>®</sup>: 71-81-8; UNII: E0KNA372SZ.  
» Isopropamide Iodide, dried in vacuum at 60° for 2 hours, contains not less than 98.0 percent and not more than 101.0 percent of  $C_{23}H_{33}IN_2O$ .

**Packaging and storage**—Preserve in well-closed, light-resistant containers.

**USP REFERENCE STANDARDS (11).**—  
[USP Isopropamide Iodide RS](#)

**Identification**—

**Change to read:**

- A:** ▲ [Spectroscopic Identification Tests \(197\)](#), [Infrared Spectroscopy: 197K](#) ▲ (CN 1-May-2020) ·
- B:** To 5 mL of a solution (1 in 1000) add 5 mL of sodium carbonate solution (1 in 100), 0.5 mL of bromophenol blue TS, and 10 mL of chloroform, and shake for several minutes: the chloroform layer becomes an intense blue in color.
- C:** A solution (1 in 1000) responds to the tests for [iodide \(191\)](#).

**LOSS ON DRYING (731).**—Dry it in vacuum at 60° for 2 hours: it loses not more than 1.0% of its weight.

**RESIDUE ON IGNITION (281):** not more than 0.5%, after ignition at 550 ± 25° for 4 hours.

**ORDINARY IMPURITIES (466).**—

- Test solution:* methanol.
- Standard solution:* methanol.
- Eluant:* a mixture of methanol, glacial acetic acid, and water (8:1:1).
- Visualization:* 2.

**Assay**—Dissolve about 750 mg of Isopropamide Iodide, previously dried and accurately weighed, in 60 mL of glacial acetic acid, add 15 mL of mercuric acetate TS and crystal violet TS, and titrate with 0.1 N perchloric acid VS to a blue endpoint. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 48.04 mg of  $C_{23}H_{33}IN_2O$ .

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

| Topic/Question      | Contact                                       | Expert Committee          |
|---------------------|-----------------------------------------------|---------------------------|
| ISOPROPAMIDE IODIDE | <a href="#">Documentary Standards Support</a> | SM32020 Small Molecules 3 |

**Chromatographic Database Information:** [Chromatographic Database](#)

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