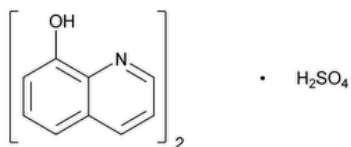


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Oxyquinoline Sulfate



$(C_9H_7NO)_2 \cdot H_2SO_4$ 388.39

8-Quinololin sulfate (2:1) (salt) CAS RN[®]: 134-31-6.

DEFINITION

Oxyquinoline Sulfate is 8-hydroxyquinoline sulfate. It contains NLT 97.0% and NMT 101.0% of oxyquinoline sulfate $[(C_9H_7NO)_2 \cdot H_2SO_4]$, calculated on the anhydrous basis.

IDENTIFICATION

Change to read:

- **A.** [▲ SPECTROSCOPIC IDENTIFICATION TESTS \(197\), Infrared Spectroscopy: 197M](#) ▲ (CN 1-MAY-2020)

Analysis: On the undried specimen

Acceptance criteria: Meets the requirements

- **B.** [IDENTIFICATION TESTS—GENERAL, Sulfate \(191\)](#)

Analysis: 100 mg/mL

Acceptance criteria: Meets the requirements

ASSAY

- **PROCEDURE**

Sample: 100 mg

Titrimetric system

(See [Titrimetry \(541\)](#).)

Mode: Residual titration

Titrant: 0.1 N bromine VS

Back-titrant: 0.1 N sodium thiosulfate VS

Endpoint detection: Visual

Analysis: Transfer the *Sample* to an iodine flask, add 30 mL of glacial acetic acid, 25.0 mL of *Titrant*, 10 mL of potassium bromide solution (150 mg/mL), and 10 mL of hydrochloric acid. Immediately insert the stopper, mix, and allow to stand for 15 min, protected from light. Quickly add 10 mL of potassium iodide solution (100 mg/mL) and 100 mL of water, taking precautions against the escape of bromine vapor. At once insert the stopper, and shake the mixture thoroughly. Remove the stopper, and rinse it and the neck of the flask with a small quantity of water so that the washing flows into the flask. Shake the mixture thoroughly. Titrate the liberated iodine with *Back-titrant*, adding 3 mL of starch TS as the endpoint is approached. Perform a blank determination. Each mL of *Titrant* is equivalent to 4.855 mg of oxyquinoline sulfate $[(C_9H_7NO)_2 \cdot H_2SO_4]$.

Acceptance criteria: 97.0%–101.0% on the anhydrous basis

IMPURITIES

- [RESIDUE ON IGNITION \(281\)](#): NMT 0.3%

SPECIFIC TESTS

- [WATER DETERMINATION, Method I \(921\)](#): 4.0%–6.0%

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve in well-closed containers.
- **USP REFERENCE STANDARDS (11).**
[USP Oxyquinoline Sulfate RS](#)

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

Topic/Question	Contact	Expert Committee
OXYQUINOLINE SULFATE	Documentary Standards Support	SE2020 Simple Excipients
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SE2020 Simple Excipients

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

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