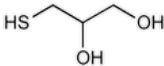


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Monothioglycerol



$C_3H_8O_2S$ 108.16
1,2-Propanediol, 3-mercapto-;
3-Mercapto-1,2-propanediol CAS RN®: 96-27-5.

DEFINITION

Monothioglycerol contains NLT 97.0% and NMT 101.0% of monothioglycerol ($C_3H_8O_2S$), calculated on the anhydrous basis.

ASSAY

PROCEDURE

Sample: 400 mg

Titrimetric system

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

Mode: Direct titration

Titrant: 0.1 N iodine VS

Endpoint detection: Visual

Analysis: Dissolve the *Sample* in 50 mL of water. Titrate with *Titrant*, adding 3 mL of starch TS as the endpoint is approached. Each mL of *Titrant* is equivalent to 10.82 mg of monothioglycerol ($C_3H_8O_2S$).

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

IMPURITIES

• [RESIDUE ON IGNITION \(281\)](#): NMT 0.1%

Change to read:

• [▲SELENIUM \(291\), Procedures, Procedure 1▲](#) (CN 1-JUN-2023)

Test solution: 200 µL

Acceptance criteria: 30 µg/g

SPECIFIC TESTS

• [SPECIFIC GRAVITY \(841\)](#): 1.241–1.250

• [REFRACTIVE INDEX \(831\)](#): 1.521–1.526

• [pH \(791\)](#)

Sample solution: 1 in 10

Acceptance criteria: 3.5–7.0

• [WATER DETERMINATION, Method II \(921\)](#): NMT 5.0%

ADDITIONAL REQUIREMENTS

• **PACKAGING AND STORAGE:** Preserve in tight containers.

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

Topic/Question	Contact	Expert Committee
MONOTHIOGLYCEROL	Documentary Standards Support	SE2020 Simple Excipients

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

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