https://trungtamthuoc.com/

Status: Currently Official on 14-Feb-2025
Official Date: Official as of 01-Dec-2019
Document Type: Reagents
DocId: GUID-DD482574-BAD5-45E5-9B33-8EF36B5056EE_4_en-US
DOI: https://doi.org/10.31003/USPNF_R3037_04_01
DOI Ref: 05cre

© 2025 USPC
Do not distribute

Change to read:

Eriochrome Black T

[*Sodium 1-(1-hydroxy-2-naphthylazo)5-nitro-2-naphthol-4-sulfonate*], $C_{20}H_{12}N_3NaO_7S$—**461.38**▲[1787-61-7]▲ (USP 1-Dec-2019) —Brownish-black powder having a faint, metallic sheen. Soluble in alcohol, in methanol, and in hot water.

Suitability as Complexometric Indicator

▲**pH 10 ammoniacal buffer:** Transfer 90 g of ammonium chloride to a 500-mL volumetric flask containing 375 mL of ammonium hydroxide. Dilute with water to volume.

Magnesium standard solution: Transfer 1.014 g of magnesium sulfate to a 100-mL volumetric flask. Dissolve in and dilute with water to volume. Dilute 10 mL of this solution with water to 1 L.This solution contains 0.01 mg of magnesium per milliliter.

Sample solution: Dissolve 0.1 g of eriochrome black T in 100 mL of water, warming if necessary.

Procedure: In a suitable container, add 10 mL of *pH 10 ammoniacal buffer* to 100 mL of water. Add 0.5 mL of the *Sample solution* and 10.0 mL of *Magnesium standard solution*.

Acceptance criteria: The reagent meets the criteria for its use as a complexometric indicator if the color of the resulting solution is red-violet, and if turns into blue after the addition of 0.10 mL of 0.1 M edetate disodium VS.▲ (USP 1-Dec-2019)

Auxiliary Information - Please check for your question in the FAQs before contacting USP.

Topic/Question	Contact	Expert Committee
ERIOCHROME BLACK T	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:
Pharmacopeial Forum: Volume No. PF 44(5)

Current DocID: GUID-DD482574-BAD5-45E5-9B33-8EF36B5056EE_4_en-US
DOI: https://doi.org/10.31003/USPNF_R3037_04_01
DOI ref: 05cre

OFFICIAL

www.webofpharma.com