

Status: Currently Official on 15-Feb-2025
Official Date: Official Prior to 2013
Document Type: Reagents
DocId: GUID-54C9CD4F-7F05-4D74-9538-06325D96652B_1_en-US
DOI: https://doi.org/10.31003/USPNF_R2136_01_01
DOI Ref: 06m42

© 2025 USPC
Do not distribute

Magnesium,

Mg 24.305 CAS RN[®]: 7439-95-4.—Silvery metal in ribbon form. Reacts slowly with water at room temperature. Dissolves readily in dilute acids with the liberation of hydrogen.

Assay: Transfer 1 g, accurately weighed, to a 250-mL volumetric flask, and dissolve in a mixture of 15 mL of hydrochloric acid and 85 mL of water. When solution is complete, dilute with water to volume, and mix. Pipet 25 mL of the dilution into a 400-mL beaker, dilute with water to 250 mL, add 20 mL of ammonia–ammonium chloride TS and a few mg of eriochrome black T trituration, and titrate with 0.1 M edetate disodium VS to a blue endpoint. Each mL of 0.1 M edetate disodium VS is equivalent to 2.430 mg of Mg. Not less than 99% is found.

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

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

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

Current DocID: [GUID-54C9CD4F-7F05-4D74-9538-06325D96652B_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R2136_01_01

DOI ref: [06m42](#)

OFFICIAL