

Status: Currently Official on 16-Feb-2025
Official Date: Official Prior to 2013
Document Type: Reagents
DocId: GUID-E4D72A7C-0E2F-44E6-A3D2-4EA5F36C41FD_1_en-US
DOI: https://doi.org/10.31003/USPNF_R1557_01_01
DOI Ref: 225r9

© 2025 USPC
Do not distribute

Theobromine,

$C_7H_8N_4O_2$ 180.17 CAS RN[®]: 83-67-0.—White, crystalline solid. Very slightly soluble in water and in alcohol; almost insoluble in benzene, in ether, and in chloroform.

Assay: Dissolve about 34 mg, accurately weighed, in 50 mL of glacial acetic acid. Titrate with 0.1 N perchloric acid VS, determining the endpoint potentiometrically. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 18.02 mg of $C_7H_8N_4O_2$. Not less than 95% is found.

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

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

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

Current DocID: [GUID-E4D72A7C-0E2F-44E6-A3D2-4EA5F36C41FD_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R1557_01_01

DOI ref: [225r9](#)

OFFICIAL