

Status: Currently Official on 13-Feb-2025
Official Date: Official Prior to 2013
Document Type: Reagents
DocId: GUID-A2F7C66F-C47B-48E5-9B27-164F9A648DDA_1_en-US
DOI: https://doi.org/10.31003/USPNF_R1791_01_01
DOI Ref: zt0vc

© 2025 USPC
Do not distribute

Adipic Acid

(Hexanedioic Acid; 1,4-Butanedicarboxylic Acid), $C_6H_{10}O_4$ 146.14 CAS RN®: 124-04-9.—Colorless to white, crystalline powder. Slightly soluble in water and in cyclohexane; soluble in alcohol, in methanol, and in acetone; practically insoluble in benzene and in petroleum benzin.

Assay: Weigh accurately about 0.3 g, and dissolve in 50 mL of alcohol. Add 25 mL of water, mix, and titrate with 0.5 N sodium hydroxide VS to a pH of 9.5. Perform a blank determination, and make any necessary correction. Each mL of 0.5 N sodium hydroxide is equivalent to 36.54 mg of $C_6H_{10}O_4$. Not less than 98% is found.

MELTING RANGE (741): between 151° and 155°, but the range between beginning and end of melting does not exceed 2°.

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

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

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

Current DocID: [GUID-A2F7C66F-C47B-48E5-9B27-164F9A648DDA_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R1791_01_01

DOI ref: [zt0vc](#)

OFFICIAL