

Status: Currently Official on 16-Feb-2025
Official Date: Official Prior to 2013
Document Type: Reagents
DocId: GUID-33959EDA-42B0-4DD8-AC41-E80BEE1184B4_1_en-US
DOI: https://doi.org/10.31003/USPNF_R2591_01_01
DOI Ref: jtq02

© 2025 USPC
Do not distribute

Propionic Anhydride,

$C_6H_{10}O_3$ 130.14 CAS RN[®]: 123-62-6.—Colorless liquid. Is decomposed by water. Soluble in methanol, in alcohol, in ether, and in chloroform.

Assay: Accurately weigh about 350 mg into a tared, glass-stoppered flask containing 50 mL of dimethylformamide previously neutralized to the thymol blue endpoint with 0.1 N sodium methoxide in methanol VS. Titrate with 0.1 N sodium methoxide in methanol VS to the thymol blue endpoint. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N sodium methoxide is equivalent to 13.014 mg of $C_6H_{10}O_3$. Not less than 97.0% is found.

REFRACTIVE INDEX (831): between 1.4035 and 1.4045 at 20°.

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

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

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

Current DocId: [GUID-33959EDA-42B0-4DD8-AC41-E80BEE1184B4_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R2591_01_01

DOI ref: [jtq02](#)

OFFICIAL