

Status: Currently Official on 14-Feb-2025
Official Date: Official Prior to 2013
Document Type: Reagents
DocId: GUID-6980B09E-477C-46EA-8D41-8E8E4E166C9B_1_en-US
DOI: https://doi.org/10.31003/USPNF_R1314_01_01
DOI Ref: jod4b

© 2025 USPC
Do not distribute

Capric Acid

(Decanoic Acid), $C_{10}H_{20}O_2$ 172.26 CAS RN[®]: 334-48-5.—White, solidified melt or fragments. Soluble in alcohol, in chloroform, and in ether; practically insoluble in water.

Assay: Inject an appropriate sample dissolved in acetone into a gas chromatograph (see [Chromatography \(621\)](#)) that is equipped with a flame-ionization detector and contains a 0.53-mm × 30-m capillary column coated with a layer of phase G25. The carrier gas is helium, flowing at a rate of 9 mL per minute. The chromatograph is programmed as follows. Initially the column temperature is equilibrated at 150°, then the temperature is increased at a rate of 10° per minute to 250°. The injection port temperature is maintained at 240°, and the detector temperature at 265°. The area of the capric acid peak is not less than 98.5% of the total peak area.

MELTING RANGE (741): between 30° and 33°.

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

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

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

Current DocID: [GUID-6980B09E-477C-46EA-8D41-8E8E4E166C9B_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R1314_01_01

DOI ref: [jod4b](#)

OFFICIAL