

Status: Currently Official on 16-Feb-2025
Official Date: Official Prior to 2013
Document Type: Reagents
DocId: GUID-C9FEAA12-3AA6-463F-A2AF-90C63D9E0FBE_1_en-US
DOI: https://doi.org/10.31003/USPNF_R2161_01_01
DOI Ref: zwh4c

© 2025 USPC
Do not distribute

Mesityl Oxide,

$C_6H_{10}O$ 98.14 CAS RN[®]: 141-79-7.—Colorless liquid.

Assay: Inject an appropriate specimen into a suitable gas chromatograph (see [Chromatography \(621\)](#)) equipped with a flame-ionization detector, helium being used as the carrier gas. The following conditions have been found suitable: a 0.25-mm × 30-m capillary column coated with a 1- μ m layer of phase G2; the injection port temperature is maintained at 150°; the detector temperature is maintained at 300°; the column temperature is maintained at 50° and programmed to rise 10° per minute to 200°. The area of the $C_6H_{10}O$ peak is not less than 98% of the total peak area.

REFRACTIVE INDEX (831): between 1.443 and 1.447 at 20°.

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

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

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

Current DocID: [GUID-C9FEAA12-3AA6-463F-A2AF-90C63D9E0FBE_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R2161_01_01

DOI ref: [zwh4c](#)

