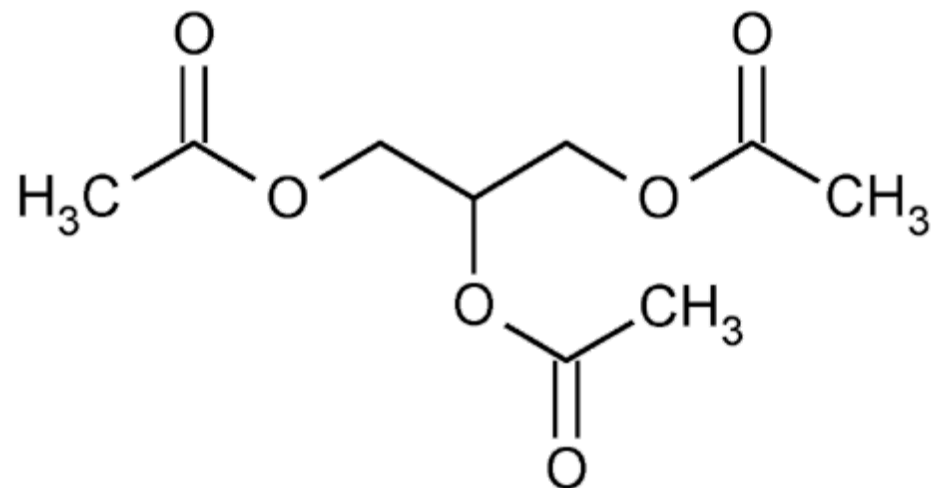


U.S. PHARMACOPEIA

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Triacetin

 $C_9H_{14}O_6$ 218.21

1,2,3-Propanetriol triacetate.

Triacetin.

Glyceryl triacetate [102-76-1].

» Triacetin contains not less than 97.0 percent and not more than 100.5 percent of $C_9H_{14}O_6$, calculated on the anhydrous basis.

Packaging and storage— Preserve in tight containers.

USP Reference standards < 11 > — [USP Triacetin RS](#).

Identification—

A: [Infrared Absorption](#) < 197F > .

B: The solution prepared as directed in the [Assay](#) responds to the tests for [Acetate](#) [\(191 \)](#).

[Specific gravity](#) [\(841 \)](#) : not less than 1.152 and not more than 1.158.

[Refractive index](#) [\(831 \)](#) : not less than 1.429 and not more than 1.430.

Acidity— Dilute 25 g of Triacetin, accurately weighed, with 50 mL of neutralized alcohol, add 5 drops of phenolphthalein TS, and titrate with 0.020 N sodium hydroxide: not more than 1.0 mL of 0.020 N sodium hydroxide is required for neutralization.

[Water, Method I](#) [\(921 \)](#) : not more than 0.2% is found.

[Residual solvents](#) [\(467 \)](#) : meets the requirements.

(Official January 1, 2007)

Assay— Transfer about 1 g of Triacetin, accurately weighed, to a 250-mL boiling flask, add 50.0 mL of 0.5 N alcoholic potassium hydroxide VS, connect the flask to a water-jacketed condenser, and reflux on a steam bath for 45 minutes, swirling frequently. Cool, add 5 drops of phenolphthalein TS, and titrate the excess alkali with 0.5 N hydrochloric acid VS. Perform a blank determination (see [Residual Titrations](#) under [Titrimetry](#) [\(541 \)](#)). Each mL of 0.5 N alcoholic potassium hydroxide is equivalent to 36.37 mg of $C_9H_{14}O_6$.

Auxiliary Information— *Staff Liaison* : [Behnam Davani, Ph.D., MBA, Senior Scientist](#)

Expert Committee : (MDAA05) Monograph Development-Antivirals and Antimicrobials

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