## U.S. PHARMACOPEIA

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## Castor Oil

» Castor Oil is the fixed oil obtained from the seed of Ricinus communis Linné (Fam. Euphorbiaceae). It contains no added substances.
Packaging and storage- Preserve in tight containers, and avoid exposure to excessive heat.
Specific gravity $\langle\underline{841}\rangle$ : between 0.957 and 0.961 .
Distinction from most other fixed oils— It is only partly soluble in solvent hexane (distinction from most other fixed oils), but it yields a clear liquid with an equal volume of alcohol (foreign fixed oils)
Heavy metals, Method II $\langle 231\rangle: 0.001 \%$.
Free fatty acids $\langle\underline{401}\rangle$ - The free fatty acids in 10 g require for neutralization not more than 3.5 mL of 0.10 N sodium hydroxide.




 phenolphthalein, swirl to mix, add 1 mL of phenolphthalein TS , and titrate with 0.5 N alcoholic potassium hydroxide VS to a faint pink endpoint. Calculate the hydroxyl value taken by the formula:

$$
56.1 N[A+(B W / D)-C] / W
$$



lodine value $\langle\underline{401}\rangle$ : between 83 and 88 .
$\underline{\text { Saponification value }\langle\underline{401}\rangle \text { : between } 176 \text { and } 182 . . . . ~}$
$\underline{\text { Residual solvents }}\langle\underline{467}\rangle$ : meets the requirements.
(Official January 1, 2007)
Auxiliary Information—Staff Liaison: Hong Wang, Ph.D., Senior Scientific Associate
Expert Committee : (EM205) Excipient Monographs 2
USP29-NF24 Page 398
http://www.pharmacopeia.cn/v29240/usp29nf24s0_m13790.html

