

## Certificate of Analysis

(Representative Sample Certificate)

**Product Name:** Castor Oil, USP  
**INCI Name:** Castor Oil (Ricinus communis)  
**CAS Number:** 8001-79-4  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 24 months from production date

Property	Specification	Analysis
Free Fatty Acid Value	1.5% MAX	0.23%
Saponification Value	176-185	178.09
Hydroxyl Value	160-168	163.66
Iodine Value	82-90 g I <sub>2</sub> /100g	86.60 g I <sub>2</sub> /100g
Specific Gravity @ 30°C	-	0.958 g/mL
Heavy Metals	0.001% MAX	0.0%
Distinction	Pale yellow, transparent, viscid liquid has faint mild characteristic odor	Conforms

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.