



Shay and Company

Supplier of Wholesale Oils, Butters, Waxes, Candle Supplies and Essential Oils

Castor Oil

Lot# 910361

Country of Origin: India

Manufacture Date: 03/2023

Expiration Date: 03/2026

Ingredient Name (INCI): Ricinus Communis (Castor Oil)

Composition: 100% Castor Oil

CAS no: 8001-79-4

Packaging: Drums, Pails, Buckets

Description: Light amber liquid, oily, almost odorless. Characteristic bland taste.

Applications: Skincare, Soap Manufacturing, Food

Certificates: Kosher, non-GMO

Method of Extraction: Expeller pressed

Plant Part Used: Seed

Vegan: Yes

Gluten Free: Yes

Allergen: None known

Food Grade: Yes

Prop 65: No

| Properties/Analysis | Result | Range/Limit | UOM | Test Method |
|-----------------------------------------------------|------------------------------------------------|-----------------------------|----------|-------------|
| Appearance at 20°C | Pass | Clear oily liquid | | Visual |
| Odor | Pass | Very slight, characteristic | | Sensory |
| Specific Gravity at 25°C | 0.9602 | 0.957 - 0.961 | g/ml | USP 841 |
| Unsaponifiable Matter | 0.35 | Max 0.8 | % | USP 401 |
| Moisture | 0.11 | Max 0.3 | % | USP 921 |
| Acid Value | 0.5 | Max 2.0 | mg KOH/g | USP 401 |
| Peroxide Value | 0.25 | Max 10.0 | mEq/kg | USP 401 |
| Hydroxyl Value | 164.69 | 160 - 168 | | USP 401 |
| Identification B- Distinct from other fixed oils | Pass | Meets Requirements | | USP |
| Identification C- Ultraviolet Absorption (270nm) | 1.08 | 0.7 - 1.5 | | USP |
| Elemental Impurities | Pass | Conforms to Limits | | USP 233 |
| Residual Solvents | No class 1,2 or 3 or any other solvent present | | | |

SHAY AND COMPANY
10639 SE FULLER RD
PORTLAND, OR 97222

WWW.SHAYANDCOMPANY.COM
PH: 503-653-1155
EMAIL: ORDERS@SHAYANDCOMPANY.COM



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| Fatty Acid Composition | Result | Range/Limit | UOM | Test Method |
|---------------------------------------------------------------|--------|-------------|-----|-------------|
| C16:0 Palmitic | 1.25 | Max 2.0 | % | USP |
| C18:0 Stearic | 1.35 | Max 2.5 | % | USP |
| C18:1 Oleic | 3.82 | 2.5 - 6.0 | % | USP |
| C18:2 Linoleic | 4.76 | 2.5 - 7.0 | % | USP |
| C18:3 Linolenic | 0.39 | Max 1.0 | % | USP |
| C20:1 cis-11 Eicosenoic Acid | 0.48 | Max 1.0 | % | USP |
| Ricinoleic Acid | 87.6 | 0.85 - 92.0 | % | USP |
| cis-11 Octadecenoic acid or any other unidentified fatty acid | 0.35 | Max 1.0 | % | USP |

| Triglyceride Composition | Result | Range/Limit | UOM | Test Method |
|--------------------------|--------|-------------|-----|-------------|
| RRR | 92.5 | Min 90.0 | % | USP |
| RRL | 3.22 | 2.0 - 4.0 | % | USP |
| RRO | 4.12 | 2.5 - 5.0 | % | USP |
| RRS | 0.51 | 0.2 - 0.8 | % | USP |

Shelf life is guaranteed for three years from time of manufacture when stored in original, unopened container between 59° F to 86°F and protected from light. Shay and Company diligently sources and provides the highest quality ingredients, but it is the customer's responsibility to ensure the products purchase from Shay and Company meets their expectations. Any additional testing will be the responsibility of the customer.