

# TECHNICAL DATA SHEET

## CANNASORB SATIVA SEED OIL (SSO)

### Overview

Patent-pending CannaSorb Sativa Seed Oil is a water-soluble biopolymer produced with GRAS-certified cannabis Sativa seed oil (hemp seed oil) as the starting material and polymer backbone. It is a safe, multifunctional nutraceutical ingredient, containing both water and oil-loving moieties, delivering excellent benefits to both oil and water-based systems. It is also an efficient solubilizer capable of solubilizing and emulsifying additional cannabinoids and active or functional ingredients, to create more bioavailable, water-soluble forms than can dilute clear in water-based products or form stable microemulsions.

### Technical Specifications

<u>Appearance at 25°C</u>	<u>Viscous Liquid</u>
<u>Color (Gardner)</u>	<u>6.5 Max</u>
<u>Hydroxyl Value</u>	<u>80 - 85</u>
<u>Acid Value</u>	<u>1.0 Max</u>
<u>Saponification Value</u>	<u>40 Max</u>
<u>pH (5% 1:1 IPA:H<sub>2</sub>O)</u>	<u>5.0 - 7.0</u>
<u>% Moisture</u>	<u>1.0 Max</u>
<u>1,4 Dioxane</u>	<u>1ppm Max</u>
<u>Free EO</u>	<u>1ppm Max</u>

## Formulation Guidelines

- For best results and rapid dissolution, weigh the necessary CannaSorb SSO for your formulation and then add the water phase while mixing. A maximum of 10% by weight is recommended.
- If your formula requires flavor modulators, such as Synergy Life Science FN or FN+, add the modulators directly to CannaSorb SSO and then add the water phase to the formula while mixing.
- In addition to being a standalone ingredient, CannaSorb SSO is an efficient solubilizer and can be used to easily create a clear solution. To solubilize cannabinoids and/or other oil-soluble compounds into a clear, water-based solution, use a blend ratio of fifteen (15) parts CannaSorb SSO to one (1) part oil-soluble compound(s) while mixing. After blending, the water phase can be slowly added while continuing to mix. For example, to create a clear solution in a formula with CannaSorb SSO at 5% by weight, all oil-soluble compounds should not exceed 0.33% by weight.
- To create an emulsion, while mixing add the required oil-soluble compounds directly into CannaSorb SSO and then add the water phase of the formulation while continuing to mix. CannaSorb SSO can solubilize up to 80% of its weight in additional ingredients.
- As is the case with all product formulations, the exact process is dependent on the type of product, its composition, and quantity of ingredients, to name a few considerations.

## Storage & Handling

- Store tightly closed container in a cool and dry area.



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## Available Packaging

- 3 Ounce Sample
- 1 Liter
- 1 Gallon
- 5 Gallons
- 55 Gallon Drum
- 275 Gallon Tote