

# TECHNICAL DATA SHEET

## CANNASORB CB-ACTIVE

**INCI NAME:** Cannabidieth-21

**ADDITIONAL NAMES:** Polycannaboate 80; Polysatoate 80

Patent-pending CannaSorb CB-Active is a water-soluble biopolymer produced with GRAS-certified cannabidiol (CBD) as the starting material and polymer backbone. It is a safe, multifunctional active ingredient and is proven to be significantly more efficacious than CBD isolate across many genetic markers, including pain, inflammation, sleep, wound healing, and more. Due to its greatly improved water solubility, genetic studies suggest it to be more effective than other fat-soluble cannabinoids, including CBG and CBN, even at very low concentrations.

CannaSorb CB-Active contains both water and oil-loving moieties, providing 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>3.0 Max</u>
<u>Hydroxyl Value</u>	<u>89 - 95</u>
<u>Acid Value</u>	<u>1.0 Max</u>
<u>pH (5% 1:1 IPA:H2O)</u>	<u>4.5 - 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 CB-Active for your formulation and then add the water phase while mixing. Because of its potency, a maximum of 5% by weight is recommended.
- If your formula requires flavor modulators, such as “SL Flavor Neutralizer”, add the modulators directly to CannaSorb CB-Active and then add the water phase to the formula while mixing.
- In addition to being a standalone active ingredient, CannaSorb CB-Active 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 CB-Active 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 CB-Active 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 CB-Active and then add the water phase of the formulation while continuing to mix. CannaSorb CB-Active 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.



Synergy Life Science, Inc.  
5067 Bristol Industrial Way  
Suite B, Buford, GA 30518  
[www.synergylifescience.com](http://www.synergylifescience.com)

## Available Packaging

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