



## TECHNICAL DATA SHEET

### 1. Product Identification

- **Product Name:** Monopotassium Glycyrrhizinate
- **INCI Name:** Potassium Glycyrrhizinate
- **CAS No.:** 42294-03-1 / 68039-19-0
- **EINECS No.:** 268-237-4
- **Molecular Formula:**  $C_{42}H_{61}KO_{16}$
- **Molecular Weight:**  $\approx 861.02$  g/mol
- **Appearance:** White to off-white powder

### 2. Specifications

Parameter		Specification
Assay (Glycyrrhizic acid)	$\geq\%$	90
Appearance		Off-white powder
Odor and taste		Characteristic sweet
Loss on drying	$\leq\%$	8
Reduce on ignition	%	8.5-10.5
Specific rotation		+40.0° to +50.0°
Potassium content	%	3.8-4.8
Heavy metals (as Pb)	%	0.0002
Arsenic (As)	%	0.0003

### 3. Properties

Monopotassium Glycyrrhizinate is derived from licorice root extract. It exhibits excellent **anti-inflammatory, soothing, and anti-irritation** properties. Compared with glycyrrhizic acid, it offers **improved water solubility and better formulation compatibility**.

### 4. Functions & Benefits

- Anti-inflammatory and anti-allergic
- Skin soothing and redness reduction
- Anti-irritation agent
- Enhances skin barrier repair
- Mild antimicrobial support

### 5. Applications

#### Personal Care & Cosmetics

- Sensitive skin formulations
- Anti-acne products
- Facial creams and serums
- Sunscreen and after-sun care
- Cleansers and masks

#### Pharmaceuticals

- Topical creams for dermatitis
- Anti-inflammatory formulations
- Oral care products

#### Food & Nutraceuticals (limited use)

- Flavor modifier
- Functional ingredient in herbal products

## **6. Recommended Dosage**

- **Cosmetics:** 0.1% – 0.5%
- **Pharmaceuticals:** As per formulation requirement

## **7. Packaging**

- 25 kg fiber drum with inner PE bag
- Customized packaging available

## **8. Storage & Shelf Life**

- Store in a cool, dry, well-ventilated place
- Keep away from direct sunlight
- **Shelf life:** 24 months under proper storage conditions

## **9. Safety Information**

Refer to the Material Safety Data Sheet (MSDS) for detailed safety, handling, and transport information.