



## TECHNICAL DATA SHEET

### 1. Product Identification

- **Product Name:** Dipotassium Glycyrrhizinate
- **INCI Name:** Potassium Glycyrrhizinate
- **CAS No.:** 68797-35-3
- **EINECS No.:** 272-296-1
- **Molecular Formula:**  $C_{42}H_{60}K_2O_{16}$
- **Molecular Weight:**  $\approx 899.13$  g/mol
- **Appearance:** White to off-white powder

### 2. Specifications

Parameter		Specification
Assay (Glycyrrhizic acid)	$\geq\%$	98
Appearance		White crystalline powder
Odor and taste		Characteristic sweet
Loss on drying	$\leq\%$	5.0
Reduce on ignition	%	18.0-22.0
Heavy metals (as Pb)	%	0.0002
Arsenic (As)	%	0.0003

### 3. Properties

Dipotassium Glycyrrhizinate is a water-soluble derivative of glycyrrhizic acid extracted from licorice root. It is widely used due to its **excellent anti-inflammatory, soothing, and anti-irritation properties**, making it highly suitable for sensitive skin formulations.

### 4. Functions & Benefits

- Anti-inflammatory and anti-allergic
- Reduces skin irritation and redness
- Soothing and calming agent
- Enhances skin barrier repair
- Mild antimicrobial activity
- Improves product mildness in formulations

### 5. Applications

#### Cosmetics & Personal Care

- Creams and lotions
- Serums and essences
- Facial masks
- Sunscreen and after-sun products
- Cleansers and shampoos
- Anti-acne formulations

#### Pharmaceuticals

- Topical anti-inflammatory preparations
- Dermatological products
- Oral care products (toothpaste, mouthwash)

#### Food & Nutraceuticals (limited use)

- Flavor enhancer
- Functional ingredient in herbal formulations

## **6. Recommended Dosage**

- **Cosmetics:** 0.1% – 0.5%
- **Pharmaceuticals:** As required by formulation

## **7. Packaging**

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

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

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

## **9. Safety Information**

Please refer to the Material Safety Data Sheet (MSDS) for detailed information on handling, safety, and transportation.