



TECHNICAL DATA SHEET

1. Product Identification

- **Product Name:** Tripotassium Glycyrrhizinate
- **INCI Name:** Tripotassium Glycyrrhizate
- **CAS No.:** 53906-39-1
- **EINECS No.:** 53906-39-1 / 272-296-1
- **Molecular Formula:** $C_{42}H_{59}K_3O_{16}$
- **Molecular Weight:** ≈ 937.2 g/mol

2. Specifications

INDEX		SPECIFICATION
Assay (Glycyrrhizic acid)	$\geq\%$	10
Appearance		Yellowish powder
Odor and taste		Characteristic sweet
Loss on drying	$\leq\%$	8
Reduce on ignition	$\leq\%$	27

3. Description

Tripotassium Glycyrrhizinate is a potassium salt of glycyrrhizic acid derived from licorice root. It offers enhanced **water solubility, stability, and bioavailability** compared to the acid form, making it suitable for a wide range of formulations.

4. Functions & Benefits

- Excellent anti-inflammatory activity
- Anti-allergic and soothing effects
- Reduces redness and irritation
- Supports skin barrier repair
- Mild antimicrobial properties

5. Applications

Personal Care & Cosmetics

- Sensitive skin formulations
- Anti-acne products
- Creams, lotions, and serums
- Sunscreen and after-sun care
- Facial masks and cleansers

Pharmaceuticals

- Topical anti-inflammatory preparations
- Dermatological formulations
- Oral care products

Food & Nutraceuticals (where permitted)

- Flavor modifier
- Functional ingredient in herbal products

6. Recommended Dosage

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

7. Packaging

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

8. Storage & Shelf Life

- Store in a cool, dry, and well-ventilated place
- Protect from light and moisture
- **Shelf life:** 24 months when properly stored

9. Safety Information

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