

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Sodium Butylflavone
- English Name: Sodium Butylflavone
- CAS Number: 141-33-3
- Formula: $C_{13}H_{13}NaO_4$
- Molecular Weight: 256.23 g/mol
- Product Characteristics: High-purity yellow crystalline powder, natural flavonoid derivative. Excellent antioxidant and anti-inflammatory properties. Soluble in water and ethanol, stable under normal storage. Suitable for pharmaceutical, cosmetic, and food applications.

2. Technical Specifications

Item	Specification
Appearance	Yellow to orange crystalline powder
Purity ($C_{13}H_{13}NaO_4$)	$\geq 98.0\%$
Moisture Content	$\leq 1.0\%$
pH Value (5% solution, 25°C)	7.0-9.0
Heavy Metals (Pb)	≤ 5 ppm
Heavy Metals (As)	≤ 1 ppm
Iron (Fe)	$\leq 0.005\%$
Insoluble Matter in Water	$\leq 0.1\%$
Solubility (20°C)	≥ 18 g/100 mL (water)
Melting Point	210-215°C (decomposes)
Antioxidant Activity	$\geq 90\%$ (DPPH radical scavenging rate)

3. Product Advantages

- High purity and strong antioxidant activity.
- Water-soluble for easy formulation in aqueous systems.
- Natural derivative, safe for pharmaceutical/cosmetic/food use.
- Stable under proper storage conditions.
- Multi-functional: Antioxidant, anti-inflammatory, and free radical scavenger.

4. Application Fields

- Pharmaceuticals: Intermediate for anti-inflammatory, antioxidant drugs.
- Cosmetics: Antioxidant, anti-aging agent in creams, serums, lotions.
- Food Industry: Natural antioxidant additive for oils, beverages, baked goods.
- Chemical Synthesis: Intermediate for flavonoid derivatives.

5. Usage Methods

- Cosmetics: Add 0.1-1.0% (mass ratio) to formulations; mix evenly.
- Food: Add 0.01-0.1% to food products; comply with food additive limits.



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- Pharmaceuticals: Use in specified molar ratios for chemical synthesis.
- Optimal Conditions: Apply at 15-35°C; avoid strong oxidizing agents.

6. Packaging & Storage

- Packaging: 100 g/bottle, 500 g/bottle, 1 kg/bottle (amber glass), 25 kg/drum (HDPE).
- Storage: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); keep sealed; avoid direct sunlight.
- Shelf Life: 24 months (unopened).
- Transportation: Non-dangerous goods; avoid collision, moisture.

7. Safety & Protection

- Wear protective gloves and safety goggles during handling.
- Avoid dust inhalation and eye contact; rinse immediately if contact occurs.
- Food/pharmaceutical grade: Comply with relevant dosage limits.

8. Quality Assurance

- Manufactured under ISO 9001 and GMP (pharmaceutical grade) standards.
- Each batch accompanied by COA.
- Provide technical support for formulation and application.



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