

## Technical Data Sheet (TDS)

### 1. Product Overview

**Product Name:** Desoxycorticosterone **English Name:** Desoxycorticosterone **CAS Number:** 64-85-

**7Molecular Formula:** C<sub>21</sub>H<sub>30</sub> O<sub>2</sub> **Molecular Weight:** 314.46 g/mol **Product Characteristics:**

Endogenous mineralocorticoid hormone, a steroid hormone secreted by the adrenal cortex. White to creamy white crystalline powder, odorless, insoluble in water, soluble in ethanol, chloroform and vegetable oils. Stable under recommended storage conditions, with strong mineralocorticoid activity, regulating water and electrolyte balance in the body by promoting sodium reabsorption and potassium excretion. High purity, stable biological activity, core raw material for endocrinology and hormonal pharmaceutical formulation.

### 2. Technical Specifications (Complies with Industrial Standards)

Appearance: White to creamy white crystalline powder Assay (HPLC): ≥ 98.0% Melting Point: 155-160°C Loss on Drying: ≤ 0.5% Residue on Ignition: ≤ 0.1% Heavy Metals (Pb): ≤ 10 ppm Heavy Metals (As): ≤ 2 ppm Related Substances (Total): ≤ 1.5% Related Substances (Single): ≤ 0.5% Optical Rotation (c=1, ethanol, 25°C): +170° to +178° Solubility: Insoluble in water, soluble in ethanol/chloroform, slightly soluble in vegetable oils Storage Stability: Stable for 24 months at 2-8°C (sealed, dark condition) pH Value: Not applicable (insoluble in water)

### 3. Product Advantages

High Purity & Low Impurity: Assay ≥ 98.0%, low single and total related substances, meeting pharmaceutical raw material quality standards.

Natural Bioactivity: Endogenous mineralocorticoid structure, high biological potency and physiological compatibility with the human body.

Excellent Stability: Long shelf life under recommended storage conditions, no easy degradation and activity loss.

Good Solubility: Soluble in common organic solvents, suitable for injectable and oral pharmaceutical formulation development.

Standardized Production: Manufactured in line with ISO 9001 quality management system, complete testing data and strict quality control.

### 4. Application Fields

- Pharmaceutical Industry: Raw material for human pharmaceutical formulations (adrenal cortex insufficiency treatment, electrolyte imbalance correction, mineralocorticoid replacement therapy).
- Research & Development: Laboratory research on mineralocorticoid hormone mechanism, adrenal gland function research, steroid hormone activity testing and new drug development.
- Fine Chemicals: Intermediate for the synthesis of mineralocorticoid derivatives and modified steroid hormone products.

### 5. Usage Methods

- Pharmaceutical Formulation: Dissolve in appropriate organic solvent (ethanol/chloroform) or vegetable oil according to formulation requirements, prepare injectable formulations or oral tablets/capsules; adjust the concentration and dosage based on specific drug specifications and clinical needs.



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- Research Use: Prepare standard solutions with ethanol (1-5 mg/mL) for laboratory tests, the specific dosage is determined by the research protocol.
- Note: Strictly follow national pharmaceutical regulations and professional medical guidelines for use, only for industrial and research purposes, no unauthorized use.

### 6. Packaging & Storage

#### Packaging Specifications:

- 100 g/bottle (HDPE bottle with aluminum foil seal)
- 500 g/bottle (HDPE bottle with aluminum foil seal)
- 1 kg/tin can (sealed tin can with inner plastic bag)
- 5 kg/fiber drum (sealed fiber drum with inner plastic bag)
- Custom packaging available upon request.

#### Storage Conditions:

- Store in a cool, dry, dark place at 2-8°C, keep the container tightly sealed to avoid moisture and light.
  - Keep away from heat, open flame, strong oxidizing agents, strong acids and strong bases.
  - Store separately from food, beverages, aquatic products and raw materials for edible use.
- Shelf Life:** 24 months (unopened, under specified storage conditions).**Transportation:** Non-hazardous for transport under sealed condition; avoid high temperature, sunlight and collision during transportation; use refrigerated transport for long-distance shipping.

### 7. Safety & Protection

- The product is an endogenous steroid hormone, avoid direct skin contact and dust inhalation during handling.
- Wear nitrile rubber gloves, safety glasses and dust mask for large-scale handling or prolonged contact with the product.
- In case of skin contact: Rinse the affected area with plenty of soap and water for 5 minutes; remove contaminated clothing and wash before reuse.
- In case of eye contact: Rinse eyes thoroughly with plenty of running water for 10-15 minutes; consult a doctor if irritation or discomfort persists.
- Do not ingest; if accidentally swallowed, rinse mouth with water and seek medical advice immediately.

### 8. Quality Assurance

- The product is manufactured in accordance with ISO 9001 quality management system and pharmaceutical raw material production specifications.
- Each batch of product is fully tested and accompanied by a Certificate of Analysis (COA) to ensure compliance with industrial standards.
- Provide professional technical support for product application, including formulation optimization, solubility guidance and quality control advice.
- Undertake quality responsibility for qualified products under normal storage and use conditions.