

Technical Data Sheet (TDS)

1. Product Overview

Product Name: Stanozolol **English Name:** Stanozolol **CAS Number:** 10418-03-8 **Molecular Formula:** C₂₁H₃₂N₂O **Molecular Weight:** 332.49 g/mol **Product Characteristics:** Synthetic anabolic-androgenic steroid (AAS) with strong anabolic activity and moderate androgenic activity. White crystalline powder, insoluble in water, soluble in chloroform, ethanol and vegetable oils. Stable under normal storage conditions, exhibits protein anabolic, muscle growth-promoting and fat-reducing effects.

2. Technical Specifications (Complies with Industrial Standards)

Appearance: White to off-white crystalline powder

Assay (HPLC): ≥ 98.5%

Melting Point: 240-246°C (decomposition)

Loss on Drying: ≤ 0.5%

Residue on Ignition: ≤ 0.1%

Heavy Metals (Pb): ≤ 10 ppm

Heavy Metals (As): ≤ 2 ppm

Chloride (Cl⁻): ≤ 0.01%

Sulfate (SO₄²⁻): ≤ 0.01%

Related Substances (Total): ≤ 1.0%

Optical Rotation (c=1, CHCl₃): +34° to +40°

Solubility: Insoluble in water, soluble in chloroform/ethanol

Storage Stability: Stable for 24 months at 2-8°C (sealed)

3. Product Advantages

High Purity: Assay ≥98.5%, low impurity content, consistent quality.

Strong Anabolic Activity: High anabolic to androgenic ratio, effective muscle mass promotion.

Good Stability: Stable under recommended storage conditions, long shelf life.

Solubility: Soluble in organic solvents and vegetable oils, easy for formulation development.

4. Application Fields

Pharmaceutical Industry: Raw material for veterinary and human pharmaceutical formulations (for muscle wasting, osteoporosis).

Research & Development: Laboratory research on anabolic-androgenic steroid activity and mechanism.

Fine Chemicals: Intermediate for the synthesis of related steroid derivatives.

5. Usage Methods

Formulation Use: Dissolve in appropriate organic solvent/vegetable oil according to formulation requirements, adjust dosage based on specific application.

Research Use: Prepare standard solutions with suitable solvent (e.g., chloroform, ethanol) for laboratory tests, dosage determined by research protocol.

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)
- Custom packaging available upon request.

Storage Conditions:

- Store in a cool, dry, dark place at 2-8°C, sealed to avoid moisture and light.
- Keep away from heat, open flame and oxidizing agents.
- Store separately from food, beverages and raw materials for edible use. **Shelf Life:** 24 months (unopened, under specified storage conditions).

7. Quality Assurance

- Manufactured in accordance with ISO 9001 quality management system standards.
- Each batch is tested and accompanied by a Certificate of Analysis (COA) to ensure compliance with standards.
- Provide technical support for product application and formulation development.