

Technical Data Sheet

Issue Date: 28 FEB 2026 Version: V1.0

1. Product Overview

- Name: Midazolam
- CAS: 59467-74-6
- Formula: $C_{18}H_{13}ClFN_3$
- Mw: 325.77 g/mol
- Trait: White crystalline powder, slightly hygroscopic, light-sensitive; slightly soluble in water, soluble in organic solvents.
- Function: Short-acting benzodiazepine; sedative, hypnotic, anxiolytic, anticonvulsant; fast onset, short duration.
- Application: Injectable anesthesia adjuvant, ICU sedation, procedural sedation, anticonvulsant.

2. Specifications (Pharmaceutical Grade)

Item	Spec	Method
Appearance	White to off-white crystalline powder	Visual
Assay	$\geq 99.5\%$	HPLC
Loss on Drying	$\leq 0.3\%$	105°C, 2h
Residue on Ignition	$\leq 0.1\%$	600°C
Heavy Metals (Pb)	≤ 2 ppm	AAS
Related Substances	$\leq 0.3\%$	HPLC
Melting Point	160-164°C	MP Apparatus
pH	4.0-6.5	pH Meter
Microbiology	≤ 5 CFU/g	Plate Count

3. Key Advantages

- Fast onset (3–5 min i.v.), short duration (1–2 h).
- High purity, low impurities, meets injectable grade.
- Good formulation compatibility for injections.
- Stable under proper storage.

4. Applications

- Anesthesia:** Induction adjuvant, procedural sedation.
- ICU:** Sedation for mechanically ventilated patients.
- Anticonvulsant:** Status epilepticus rescue.

5. Formulation Guidelines

Used for injectable solutions (with solubilizers like propylene glycol). pH maintained at 4.0–6.0; sterile filtration; light protection.

6. Packaging & Storage



NEWAY SINOPHC TECH. LIMITED

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Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- Packaging: Amber glass bottle, aluminum foil bag, HDPE drum.
- Storage: Cool, dry, dark, locked; $\leq 25^{\circ}\text{C}$.
- Shelf Life: 36 months (unopened).

7. Safety

Operate in fume hood; full PPE; avoid dust inhalation and skin contact.

8. Quality & Supplier

- GMP & ISO 9001 production.
- Full-batch testing, COA provided.
- Supplier: NEWAY SINOPHC TECH. LIMITED



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