

Batch no 250615
Mf date Jun 15 2025
Retest Jun 14 2028

Molecular Structure



Molecular Formula $C_8H_{14}O_2S_2$

Molecular Weight 206.33

CAS Registry Number 1077-28-7

Aug 01 2025

Tests	Specifications	Results
Appearance	Yellowish crystalline powder	Conforms
Identification	HPLC, TLC	Positive
Melting point	60 ~ 62°C	61.0 ~ 61.5°C
Specific rotation	-1.0° ~ +1.0°	0°
Heavy metals	≤ 10 ppm	< 10 ppm
Lead	≤ 3 ppm	Conforms
Cadmium	≤ 1 ppm	Conforms
Mercury	≤ 0.1 ppm	Conforms
Arsenic	≤ 1 ppm	Conforms
Related substances	Single impurity ≤ 0.10%	0.03%
	Total impurities ≤ 2.0%	0.05%
Polymeric lipoic acid	≤ 2.0%	Conforms
Loss on drying	≤ 0.2%	0.09%
Residue on ignition	≤ 0.1%	0.05%
Residual solvents	Cyclohexane ≤ 0.388%	0.165%
	Ethyl acetate ≤ 0.5%	ND
	Toluene ≤ 0.02%	ND
Microbiological tests	Total plate count ≤ 1000 cfu/gr	Conforms
	Yeast & mould ≤ 100 cfu/gr	Conforms
	E. coli Negative	Negative
	Staphylococcus aureus Negative	Negative
Particle size	100% pass 40 mesh	Conforms
Assay (HPLC) odb	99.0 ~ 101.0% of $C_8H_{14}O_2S_2$	99.3%

Packaging & Storage	Preserve in well-closed containers
Conclusion	Material complies with USP43