

Magnesium L-Threonate

magnesium bis((2R,3S)-2,3,4-trihydroxybutanoate) | CAS 778571-57-6

Product identification

Product name	Magnesium L-Threonate
Chemical name	magnesium bis((2R,3S)-2,3,4-trihydroxybutanoate)
CAS number	778571-57-6
PubChem CID	45489777
Molecular formula	C ₈ H ₁₄ MgO ₁₀
Molecular weight	294.50 g/mol
InChIKey	YVJOHOWNFPQSPP-BALCVSAKSA-L
Canonical / reference SMILES	[O-]C([C@H](O)[C@@H](O)CO)=O.[O-]C([C@H](O)[C@@H](O)CO)=O.[Mg+2]
Material type	Chemical reference material / technical compound

Material description

Magnesium L-Threonate is the anhydrous magnesium salt of L-threonic acid supplied by Rexar as a chemical reference material / technical compound. The identity data support laboratory identification, documentation and analytical comparison.

Intended use

For laboratory, analytical, chemical and method-development applications. Not for human or animal consumption. Not intended for food, supplement, cosmetic, medical, diagnostic or therapeutic use.

Reference characteristics

Structural class	Magnesium salt of L-threonic acid
Typical physical form	Solid / powder
Storage guidance	Keep tightly closed and dry; protect from moisture. Follow lot-specific supplier storage documentation.

Analytical use and traceability

Lot-specific purity, water content, residual solvents and analytical acceptance criteria must be taken from applicable supplier documentation or a certificate of analysis; they are not inferred by this datasheet.

Safety note

No batch-specific Rexar CLP classification is assigned from identity data alone. Use standard laboratory controls and consult supplier documentation. Consult the applicable Safety Data Sheet before handling.

Identity verification note

Identity verified against PubChem CID 45489777 and FDA GSRS: CAS 778571-57-6, molecular formula C₈H₁₄MgO₁₀, molecular weight 294.50 g/mol and InChIKey YVJOHOWNFPQSPP-BALCVSAKSA-L. The referenced identity is Magnesium L-Threonate anhydrous.

Document control

Document	Rexar Technical Compound Datasheet
Revision	10 September 2026
Status	Reference information; not a certificate of analysis

Disclaimer

This document is provided for chemical identification and laboratory reference purposes. It does not certify batch purity or replace lot-specific analytical documentation. Users remain responsible for suitability, regulatory status and safe handling.