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Specification

Technical Data Sheet

CAS	SPECIFICATION	STORAGE	MOLECULAR WEIGHT
10277-43-7	**v1 · 06 Oct 2026**	**Ambient**	**433.01**

PRODUCT

Lanthanum(III) nitrate hexahydrate

Product number	89966314
CAS number	10277-43-7
Molecular formula	La(NO3)3 · 6H2O
Molecular weight	433.01 g/mol

PARAMETER	SPECIFICATION
Appearance	White crystal
Calcium Oxide (CaO)	≤ 0.008%
Cerium(IV) Oxide (CeO2)	≤0.008%
Dye content (dry basis)	≤0.001%
Fe2O3	≤0.0005%
La2O3/TREO	≥ 99.95%
Na2O	≤0.001%
Nd2O3	≤0.001%
Pr6O11	≤0.001%
Silicon Dioxide (SiO2)	≤0.001%
Sm2O3	≤0.0004%
Yttrium (III) Oxide (Y2O3)	≤ 0.0005%
Total Rare Earth Oxides (TREO)	≥ 37.55%

SPECIFICATION STATEMENT	
	The values stated above represent the standard specification for this product, issued under **Molekula Ltd**'s quality management system. Batch-specific results are provided on the Certificate of Analysis.

STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

Molekula Ltd would like to thank you for your support of our products and service.

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