

Specification

Technical Data Sheet

CAS**1309-48-4****STORAGE****Ambient****MOLECULAR WEIGHT****40.305****PRODUCT****Magnesium oxide light EP/USP Grade****Product number** 90033718**CAS number** 1309-48-4**Molecular formula** MgO**Molecular weight** 40.305 g/mol**PARAMETER****SPECIFICATION**

Appearance	Free-flowing, white powder
Loss on Ignition	≤5.0%
Salmonella	Negative
Total plate count	≤1000 cfu/g
Alkali content	Identification: Positive
Appearance of Solution	Not more coloured than B2
Assay (MgO)	98.0 - 100.5 %
Bulk density	≤0.15 g/ml
Calcium Oxide (CaO)	≤1.5%
Chloride (Cl-)	≤0.15%
Enterobacteriaceae	Negative
Free Alkali	(as 0.1 N H ₂ SO ₄ /g): ≤2.0 ml
Insoluble Substance	in acetic acid: ≤0.1%
Iron (Fe)	≤0.05%
Particle Size	(< 45 µm) (wet sieve): ~97.0%

PARAMETER	SPECIFICATION
Solubility	insoluble in water and alcohol, soluble in diluted mineral acids with effervescence
Soluble Salts	≤2.0%
Arsenic (As)	≤3 ppm
Calcium (Ca)	≤1.1%
E. Coli	Negative
Lead (Pb)	≤2 ppm
Magnesium (Mg)	Identification: Positive
Mould & Yeast	≤100 cfu/g
Sulphates (SO₄)(2-)	≤1.0%

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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