

Certificate of Analysis

Compound Information

Product Name:	Gadolinium(III) nitrate hexahydrate
Cat. No.:	1182568
CAS No.:	19598-90-4
Molecular Formula:	GdH ₁₂ N ₃ O ₁₅
Molecular Weight:	451.36
Chemical Structure:	

Batch Information

Batch No.:	L388474
Storage:	Store at room temperature, keep dry and cool
Test Date:	2024-04-01
Retest Date:	2027-03-31
Origin:	Shanghai, China

QC Summary

	Specification	Result
Appearance:	White to off-white (Solid)	white (crystal)
Cerium Dioxide (CeO ₂), ω/%:	≤0.005	qualified
Lanthanum Trioxide (La ₂ O ₃), ω/%:	≤0.005	qualified
Praseodymium Oxide (Pr ₆ O ₁₁), ω/%:	≤0.005	qualified
Neodymium Oxide (Nd ₂ O ₃), ω/%:	≤0.005	qualified
Samarium Oxide (Sm ₂ O ₃), ω/%:	≤0.005	qualified
Europium Oxide (Eu ₂ O ₃), ω/%:	≤0.005	qualified
Silica (SiO ₂), ω/%:	≤0.005	qualified
Water Dissolution Test:	qualified	qualified
Total Oxide:	≥39%	qualified
Calcium Oxide (CaO), ω/%:	≤0.008	qualified
Iron Oxide (Fe ₂ O ₃), ω/%:	≤0.002	qualified
Gadolinium oxide (Gd ₂ O ₃), ω/%:	≥99.9	qualified
Sulfate (SO ₄), ω/%:	≤0.008	qualified
Phosphate (PO ₄), ω/%:	≤0.005	qualified
Lead Oxide (PbO), ω/%:	≤0.005	qualified

Conclusion: The product has been tested and complies with the given specifications.

Caution: Research use only and are not intended for human use.

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