

Certificate of Analysis

Product Name	: GADOLINIUM (III) NITRATE HEXAHYDRATE	Product Code	: 92848- 1 KG
Batch Number	: F24J607	CAS Number	: 19598-90-4
Mfg. Month & Year	: September, 2024	Exp. Month & Year	: August, 2029

Test	Results	Specification
APPEARANCE	Complies	White to off white powder.
GURANTEED ANALYSIS		
ASSAY	99.99%	NLT 99.99%
MAXIMUM LIMITS OF IMPURITIES		
RARE EARTH (RE) IMPURITIES		
LANTHANUM OXIDE (La ₂ O ₃)	< 1.0 ppm	1.0 ppm
CERIUM OXIDE (CeO ₂)	< 0.3 ppm	0.3 ppm
PRASEODYMIUM OXIDE (PrO ₂)	< 0.3 ppm	0.3 ppm
NEODYMIUM OXIDE (Nd ₂ O ₃)	< 1.0 ppm	1.0 ppm
SAMARIUM OXIDE (Sm ₂ O ₃)	< 1.0 ppm	1.0 ppm
EUROPIUM OXIDE (Eu ₂ O ₃)	< 2.0 ppm	2.0 ppm
TERBIUM OXIDE (Tb ₄ O ₇)	< 0.8 ppm	0.8 ppm
DYSPROSIUM OXIDE (Dy ₂ O ₃)	< 0.5 ppm	0.5 ppm
HOLMIUM OXIDE (Ho ₂ O ₃)	< 3.0 ppm	3.0 ppm
ERBIUM OXIDE (Er ₂ O ₃)	< 0.5 ppm	0.5 ppm
THULIUM OXIDE (Tm ₂ O ₃)	< 0.3 ppm	0.3 ppm
YTTERBIUM OXIDE (Yb ₂ O ₃)	< 0.5 ppm	0.5 ppm
LUTETIUM OXIDE (Lu ₂ O ₃)	< 0.8 ppm	0.8 ppm
YTTRIUM OXIDE (Y ₂ O ₃)	< 0.8 ppm	0.8 ppm
NON-RE IMPURITIES		
FERRIC OXIDE (Fe ₂ O ₃)	< 4 ppm	4 ppm
CALCIUM OXIDE (CaO)	< 8 ppm	8 ppm
SILICON DI OXIDE (SiO ₂)	< 20 ppm	20 ppm
CHLORIDE	< 20 ppm	20 ppm
ISOTOPIC COMPOSITION	Complies	Natural

REMARKS:

This is to certify that the above mentioned batch has been analysed at the time of quality release and has been found to be complying with the label claim/prescribed specifications.

Dr. Rashmi Ranjan Mohanty
 Director-Technical

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