

# Chem-Impex International, Inc.

---

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

---

## Certificate of Analysis

<b>Catalogue Number</b>	35805
<b>Lot Number</b>	003131-12107
<b>Product</b>	<b>Samarium(III) nitrate hexahydrate</b> Samarium trinitrate hexahydrate
<b>CAS Number</b>	13759-83-6
<b>Molecular Formula</b>	Sm(NO <sub>3</sub> ) <sub>3</sub> •6H <sub>2</sub> O
<b>Molecular Weight</b>	444.47

---

<b>Appearance</b>	Light yellow crystalline powder
<b>Anion</b>	Si : 8 ppm
<b>Purity</b>	99.9% (REO)
<b>Storage</b>	Store at RT
<b>Additional Information</b>	Content of Sm <sub>2</sub> O <sub>3</sub> : 39.5%
	Cation : Na : 5 ppm, Mg : < 8 ppm, Al : 5 ppm, Ca : 20 ppm, Sc : < 1 ppm, Ti : < 1 ppm, V : < 1 ppm, Cr : < 1 ppm, Mn : < 1 ppm, Fe : 8, Ni : < 1 ppm, Cu : < 1 ppm, Zn : < 1 ppm, Y : < 4 ppm, La : < 5 ppm, Ce : < 10 ppm, Pr : < 10 ppm, Nd : < 20 ppm, Eu : < 20 ppm, Gd : < 100 ppm, Tb : < 10 ppm, Dy : < 10 ppm, Ho : < 10 ppm, Er : < 50 ppm, Tm : < 10 ppm, Yb : < 10 ppm, Lu : < 1 ppm, Pb : < 1 ppm, Bi : < 1 ppm, Th : < 1 ppm, U : < 1 ppm

<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only
----------------	--

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager