

Technical Data Sheet

Yttrium(III)oxide powder

Date Issued: 2019-08-13

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

Product name	Yttrium(III)oxide powder
Product code	NO-0030-UP
Supplier	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)176 - 84850874

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Yttrium(III)oxide
CAS No.	1314-36-9
Empirical Formula	Y ₂ O ₃
Molecular weight	225.81 amu
Purity (ICP)	99.95 % (REO)
Average Particle Size	40 nm
True Density	5.03 g/cm ³

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3 TYPICAL IMPURITIES

Components		Contents (ppm)
REO	La ₂ O ₃	< 1
	CeO ₂	< 1
	Pr ₆ O ₁₁	< 1
	Nd ₂ O ₃	< 1
	Sm ₂ O ₃	< 1
	Eu ₂ O ₃	< 1
	Gd ₂ O ₃	< 5
	Tb ₄ O ₇	< 5
	Dy ₂ O ₃	< 5
	Ho ₂ O ₃	< 5
	Er ₂ O ₃	< 1
	Tm ₂ O ₃	< 1
	Lu ₂ O ₃	< 1
	Yb ₂ O ₃	< 1
	Non-REO	CaO
CuO		< 1
Fe ₂ O ₃		< 50
NiO		< 1
PbO		< 1
SiO ₂		< 50
MgO		< 50
ZnO		< 1
MnO ₂		< 1
TiO ₂		< 1

Analytical Technique: Inductively coupled plasma (ICP)

6 OTHER INFORMATION

DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT
PURPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE.

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