



## Certificate of analysis

### Reference #: 2019038 - 015/783

Manufacturing date: **5/30/2019**Analysis date: **6/03/2019**

Product name	<b>Hafnium(IV) 2,4-pentanedionate, 98% (99.5% - Hf)</b>				
Ereztech #	<b>HF5671</b>	CAS#	<b>17475-67-1</b>	Purity	<b>99.02% by integration NMR</b>
Lot/batch #	<b>015/783</b>	Net weight/volume	<b>200g</b>	Seal #	<b>N/A</b>
Packaging	<b>1 plastic can</b>	Storage	<b>Shelf life 3 year.</b>		
CofO	<b>Russia</b>				

Analytical results	
Appearance	<b>White crystals</b>
NMR H1	<b>Conforms to structure</b>
Purity	<b>99.02%</b>
ICP:	<b>99.9%</b>
Impurity weight, ppm:	<b>Al: 40      Cu: 15 Co: 10      Mn: 10 Mo: 10      Ni: 20 Nb: 12      Sn: 30 Ca: 30      Cr: 30 Mg: 10      Fe: 45</b>