



## Certificate of analysis

### Reference #: 2019029-010/301

Manufacturing date 5/13/2019

Analysis date 5/13/2019

Product name	<b>Tantalum(V) chloride, anhydrous (99,99 % - Ta)</b>				
Product code	<b>TA1019</b>	CAS#	<b>7721-01-9</b>	Purity	<b>99.0% (by titration)</b>
Lot/batch #	<b>010/301</b>	Net Weight	<b>50000g</b>	Country of origin	<b>Russia</b>
Packaging	<b>50 glass bottles</b>	Storage	<b>Moisture sensitive. Shelf life 1 year</b>		

<b>Analytical results</b>	
<b>Appearance</b>	<b>White powder</b>
<b>Titration by AgNO3</b>	<b>% Cl = 49.1 %</b>
<b>Purity</b>	<b>99.0% (by titration)</b>
<b>ICP</b>	<b>99.99+% (total concentration of impurities &lt; 100 ppm)</b>
<b>ICP, ppm</b>	<b>Co&lt;0.03</b> <b>Nb=2.6</b> <b>Al=1</b> <b>W&lt;0.06</b> <b>Cr=0.3</b> <b>Ca=12.0</b> <b>Fe=5</b> <b>Mo&lt;0.06</b> <b>Ni=0.09</b> <b>Si=19</b> <b>Sn&lt;0.06</b> <b>Ti=0.3</b> <b>Mn=0.1</b>