

## Specification

<b>IUPAC Name:</b>	RUTHENIUM(III) CHLORIDE HYDRATE		
<b>Heraeus Material / Type:</b>	Ru(III) Chloride Hyd. HSTDP		
<b>Heraeus Ident-No.:</b>	Production: 89700002	Packaging: 81147407	
<b>Description /Formula:</b>	RuCl <sub>3</sub> · n H <sub>2</sub> O		

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Parameter	Unit	Specification	Test Method
<u>Precious metal</u>			
Ruthenium content *	%	39 - 42	AA_0077/xx Ru-content gravimetric
<u>Chemical and physical properties</u>			
Ruthenium purity *	%	≥ 99.95	HM_0003 xx/yy ICP-OES
Water insoluble matter *	%	≤ 0.3	AA_0083/xx PM-Compound / unsolubles
<u>Impurities</u> relating to Ru * :			HM_0003 xx/yy ICP-OES
Sum of Pd+ Pt+ Ir+ Rh *	ppm	≤ 200	
Sum of Ca+ Al+ Si+ Mg *	ppm	≤ 200	
Cu (Copper) *	ppm	≤ 20	
Fe (Iron) *	ppm	≤ 100	
K (Potassium) *	ppm	≤ 100	AA_0081/xx AAS
Na (Sodium) *	ppm	≤ 100	AA_0081/xx AAS
Os (Osmium) *	ppm	≤ 100	

### Value Determination

All values determined in accordance with AA-3.3-010/xx.

**Information:**

Color: dark brown, black

**Other relevant document(s):**

**Inspection Certificate**

Heraeus Precious Metals will issue an Inspection Certificate according to EN 10204-3.1 for each delivered batch. Parameters which are marked with [\*] will be given in the Inspection Certificate.

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