

No: SPEC-01-024_00

Precious Metals

Valid from: 26.09.2023 Released Chemical Products

Specification

IUPAC Name: Ruthenium(III) Chloride Solution

Heraeus Material / Type: Ru(III) Chloride sol. L

Description / Formula: RuCl₃

Heraeus Precious Metals GmbH & Co. KG · Heraeusstrasse 12-14 · 63450 Hanau, Germany

Contact Mail: CS-CP-HPMG@heraeus.com · Phone.: +49(0)6181/35-4854

Parameter	Unit	Specification	Test Method
Precious metal			
Ruthenium content*	%	19.00 - 24.00	00083/xx Ru- content gravimetric
Ruthenium Purity*	%	≥ 99.95	00195/xx ICP-OES
Impurities relating to precious metal			00195/xx ICP-OES
Ir (Iridium)	ppm		
Pd (Palladium)	ppm		
Pt (Platinum)	ppm		
Rh (Rhodium)	ppm		
Sum of Pd+Pt+Ir+Rh *	ppm	≤ 200	
Al (Aluminium)	ppm		
Ca (Calcium)	ppm		
Cu (Copper)*	ppm	≤ 20	
Fe (Iron)*	ppm	≤ 100	
K (Potassium)*	ppm	≤ 100	00086/xx AAS
Mg (Magnesium)	ppm		
Na (Sodium)*	ppm	≤ 100	00086/xx AAS
Os (Osmium)*	ppm	≤ 100	



No: SPEC-01-024_00

Precious Metals

Valid from: 26.09.2023 Released **Chemical Products**

Si (Silicon) ppm

Sum of Ca+ Al+ Si+ Mg* ≤ 200 ppm

Value determination

All values determined in accordance with 08170/xx

Information:

Dark-brown solution

Other relevant document(s):

xx = current revision

Inspection Certificate (IC)

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

This document has been generated automatically and is valid without signature.

This specification and all information contained therein represent confidential information of Heraeus Precious Metals GmbH & Co.KG which must be kept strictly confidential by the recipient and may not be passed on to third parties. The properties stated above have been obtained under controlled test methods. Under other test conditions or productive use, the measured results may vary, in particular depending on the specific ambient conditions. In particular, the results from Heraeus Precious Metals GmbH & Co.KG inspection certificate do not release the customer from verifying itself and on its own responsibility whether the end product specified by Heraeus Precious Metals GmbH & Co.KG is suited for the intended purpose of use of the customer.