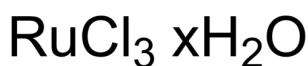


Certificate of Analysis

Compound Information

Product Name:	Ruthenium(III) chloride (hydrate)
Cat. No.:	1089723
CAS No.:	14898-67-0
Molecular Formula:	$\text{RuCl}_3 \cdot x\text{H}_2\text{O}$
Chemical Structure:	



Batch Information

Batch No.:	L334542
Storage:	2-8°C, protect from light, stored under nitrogen
Test Date:	2024-01-16
Retest Date:	2027-01-15
Origin:	Shanghai, China

QC Summary

	Specification	Result
Appearance:	Brown to black (Solid)	Dark Brown (Powder)
Magnesium(Mg), $\omega/\%$:	≤ 0.006	0.001
Calcium(Ca), $\omega/\%$:	≤ 0.012	0.001
Iron(Fe), $\omega/\%$:	≤ 0.012	0.001
Copper(Cu), $\omega/\%$:	≤ 0.006	0.001
N-butanol Insoluble, $\omega/\%$:	≤ 0.5	0.14
Ruthenium(Ru), $\omega/\%$:	35.0-38.0	37.06
Palladium(Pd), $\omega/\%$:	≤ 0.01	0.001
Sodium(Na), $\omega/\%$:	≤ 0.012	0.001
Purity, $\omega/\%$:	≥ 98	98
Conclusion:	The product has been tested and complies with the given specifications.	

Caution: Research use only and are not intended for human use.

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