

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	38508
<b>Lot Number</b>	000140-33-23-04
<b>Product</b>	<b>Ruthenium red</b>
<b>CAS Number</b>	11103-72-3
<b>Molecular Formula</b>	6Cl•O <sub>2</sub> Ru <sub>3</sub> •1 <sub>4</sub> NH <sub>3</sub>
<b>Molecular Weight</b>	786.36

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<b>Appearance</b>	Brownish red powder
<b>Solubility</b>	Soluble (10 mg/mL in water)
<b>Cation</b>	Palladium (Pd) : < 0.005% Rhodium (Rh) : < 0.004%
<b>UV Ratios</b>	Absorption maximum $\lambda$ max : 533.50 nm Extinction (1% 1cm ) : 536 nm Absorbance A ( $\lambda$ max C=10 mg/L in water, 1cm) : 0.2
<b>Assay</b>	99.11%
<b>Purity</b>	88.22% (Ruthenium content 34.23%)
<b>Storage</b>	Store at RT
<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**