

Date Prepared 03-22-05	Revised By: Initial	Date Revised Initial	Approved By: PK	Reviewed QA: WS
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**TYPICAL SPECIFICATION**

PRODUCT: Hexaammineruthenium(II) chloride  
(CAS# 15305-72-3)

CMI PRODUCT NO. 8013

FORMULA:  $[\text{Ru}(\text{NH}_3)_6]\text{Cl}_2$

FORMULA WEIGHT: 274.16

THEORETICAL % Ru: 36.87

TEST REQUIREMENT

Appearance yellow/orange/green crystalline solid

Chemical Purity: 98%

Ru assay  $36.87 \pm 0.8 \%$

Microanalysis:  $30.67 \pm 0.6 \%$  N;  
 $6.57 \pm 0.6 \%$  H  
 $25.88 \pm 0.6\%$  Cl

Trace Metal Specification No single metal impurity > 500 ppm.  
Total metal impurities < 1000 ppm.

IR: Matches that of authentic sample  
(diagnostic  $\nu_{\text{sym}}(\text{NH}_3)$  at  $1257 \text{ cm}^{-1}$ )

Prepared By: Peter Kettler, Ph.D.  
Director of Research and Development  
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