

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

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 cm^{-1})

Prepared By: Peter Kettler, Ph.D.
Director of Research and Development
Date: March 30, 2005

