



Product Specification

Chemical Name: Hexaammine ruthenium (III) chloride

CMI Product Code: 8015

CAS Number: 14282-91-8

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

Formula Weight: 309.61 g/mol

Theoretical Ru %: 32.6 %

PARAMETER

SPECIFICATION

Ru Assay

$32.6 \pm 0.5\%$

Chemical Purity

$\geq 99\%$

Microanalysis

Hydrogen: $5.86 \pm 0.6\%$

Nitrogen: $27.14 \pm 0.6\%$

Chlorine: $34.35 \pm 0.6\%$

Solubility

3.1 grams in 500ml H₂O, clear solution

Infrared Spectrum

Conforms to structure

Appearance

Off-white to pale yellow microcrystalline solid

Storage

Keep material in a tightly sealed container in a cool dry place. Shelf life 24-30 months

Reviewing Chemist: Dr. Bryan Frauhiger, Ph.D., Organometallic Technical Director: BEF

Specification Approval: Dr. Ernest Addo, Ph.D., Director of Quality & Analytical Testing: EA

Specification Revision Date: October 8th, 2014

Revision Level: 0

Colonial Metals warrants, that at the time of product release this product conformed to the information contained on this specification sheet. Purchaser must determine the suitability of the product for its particular use.