



Product Specification

Chemical Name: Osmium(VIII) oxide 2.5% in tert-butanol (stabilized)
CMI Product Code: 4036-S
CAS Number: 20816-12-0
Formula: OsO₄ in t-butanol
Formula Weight: 254.196 g/mol for OsO₄
Theoretical Os%: ~1.87% Os in solution

PARAMETER

SPECIFICATION

Os Assay	1.87 ± 0.10%
Purity	99.9% minimum (99.95% Os basis)
Appearance	Pale Yellow Liquid
Storage	Store in a tightly closed container in a cool, dry place
<u>Properties of Starting OsO₄</u>	
Os Assay	74.8 ± 0.6%
Purity	99.9% minimum (99.95% Os basis)
Trace Metal Impurities	< 500 ppm
Melting Point	41.0 - 41.5°C
USPS Tests	Solubility – Passes Tests Non-Volatile Matter – Passes Tests (<0.2%) Heavy Metals – Passes Tests (<0.005%)

Reviewing Chemist: Tyler Bazzoli, Lead Chemist: TB

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

Specification Revision Date: October 20th, 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.

Colonial Metals, Inc. 505 Blue Ball Rd. Bldg. 20 Triumph Industrial Park Elkton, MD 21921 USA
Website: www.colonialmetals.com, Telephone: (410)-398-7200, Facsimile: (410) 398-2918