

Special topic: Osmium Products



Osmium metal is extremely hard and dense; properties that make it ideal for uses where durability is key. Its high gloss appearance when in crystal form has recently afforded it new use in the jewellery industry.

Osmium tetroxide (OsO₄) is commonly used in the field of electron microscopy for the staining and fixing of samples.

Heraeus South Africa (Pty) Ltd. takes pride in being specialists in the field of OsO₄ and, despite its volatility and toxicity, we are able to manufacture, handle and package OsO₄ safely. Through years of experience, we have become experts in the manufacture of OsO₄ and we are able to offer the end user a variety of specialized packaging options, including ampouled solids and solutions, in a number of quantities and concentrations.

We also manufacture a range of osmium compounds, as solids and solutions. These salts find application, for example, as catalysts for the synthesis of fine organic chemicals and as starting materials for the synthesis of organometallic osmium compounds.

Product Name	Formula	Description	Metal Content
Osmium sponge, min 99.95% purity	Os	metal	100 %
Osmium tetroxide	OsO ₄	salt	75%
Potassium hexachloroosmate(IV)	K ₂ OsCl ₆	solution	up to 3%
Dihydrogen hexachloroosmate(IV)	H ₂ OsCl ₆	salt	up to 23%
Sodium hexachloroosmate(IV)	Na ₂ OsCl ₆	solution	39%
Ammonium hexachloroosmate(IV)	(NH ₄) ₂ OsCl ₆	salt	43%
Potassium tetrahydroxodioxoosmate(VI)	K ₂ [Os(O) ₂ (OH) ₄]	salt	52%
Osmium(III) chloride hydrate	OsCl ₃ .nH ₂ O	salt	55%

Osmium Tetroxide Product Pack Sizes

Product Name	Pack Sizes
2% Aqueous OsO ₄ Solution	2ml ampoule
	5ml ampoule
4% Aqueous OsO ₄ Solution	2ml ampoule
	5ml ampoule
OsO ₄ crystals	0.10g ampoule
	0.25g ampoule
	0.50g ampoule
	1.00g ampoule
	Bulk