

Technical data sheet

Ruthenium

Ru (III) Chloride

Formula	RuCl_3
CAS No.	10049-08-8
Grade	RM HC 359
Description	blackish red crystalline powder
Metal content	38.0%48.0%
Molar Mass (g/Mol)	207.43
Melting Point (°C)	>500°C (decomposes)

Storage Condition

Store in a tightly closed container at ambient temperature.

Application

Ruthenium trichloride is by far the best starting material for the synthesis of compounds of the metal. Like osmium, ruthenium exhibits a wide range of oxidation states in its complexes (VIII to –II), and all of these may be reached from RuCl_3 since, although it is stable, it can easily be oxidised or reduced.