

# Technical Data Sheet

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## Ruthenium chloride

### Product Identification

Product name : Ruthenium chloride  
Chemical Formula :  $\text{RuCl}_3$   
CAS No. : 10049-08-8

### Physical and Chemical Properties

Property	Value / Description
Purity	Ru 37 - 42%
Physical State	Powder or crystal
Color	Black to reddish-brown
Specific gravity	3.11 g/cm <sup>3</sup> (at 25 °C)
Boiling Point	Decomposes before boiling
Solubility in Water	Insoluble in cold water; soluble in hydrochloric acid
Electrical Properties	p-type semiconductor, photoconductive
Stability	Stable under normal conditions; deliquescent (absorbs moisture)
Reactivity	Reacts with strong alkalis; may decompose releasing toxic fumes above 360 °C

### Applications

Starting material for ruthenium complexes, catalyst for oxidation and cyclization reactions, used in organic synthesis including hydroxylation and oxidative transformations, precursor in advanced materials and chemical catalysis research

### Packing

1kg net in sealed containers

### Shipping Regulations

UN No. 1759

### Safety Information

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

\*\*\*The information provided herein is for reference purposes only, and the user is responsible for determining the suitability of the product for their specific application.