

MoO₂Cl₂

Properties: Molybdenum dichloride dioxide (MoO₂Cl₂) is an orange-yellow colored crystal or powder. It is slightly soluble in non-polar solvents, but better soluble in polar solvents.

Uses: It is an important coating precursor for molybdenum-containing films.

· Identifier

Chemical Formula	MoO ₂ Cl ₂
CAS No.	13637-68-8
EINECS No.	/

· Physical and chemical properties

Molecular weight	198.84 g/mol	Flash point	/	Reactivity	Reacts with water, releasing hydrogen chloride
Appearance	Orange- yellow solid	Melting point	184°C	Solubility	Soluble in polar solvents
Density	3.31 g/cm ³	Boiling point	/	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	Unit	Specification	Impurities	Unit	Specification
Ag	ppm	≤0.1	Mg	ppm	≤0.1
Al	ppm	≤0.5	Mn	ppm	≤0.1
As	ppm	≤0.1	Na	ppm	≤0.1
Au	ppm	≤0.1	Nb	ppm	≤0.5
Ba	ppm	≤0.1	Ni	ppm	≤0.1
Be	ppm	≤0.1	Pb	ppm	≤0.1
Ca	ppm	≤0.1	Sb	ppm	≤0.1
Co	ppm	≤0.2	Sn	ppm	≤0.1
Cr	ppm	≤0.2	Sr	ppm	≤0.1
Cu	ppm	≤0.1	Ti	ppm	≤0.5
Fe	ppm	≤0.5	V	ppm	≤0.5
Hf	ppm	≤0.1	W	ppm	≤1
K	ppm	≤0.1	Zn	ppm	≤0.1
Li	ppm	≤0.1	Zr	ppm	≤0.1
Chlorine content	%	34.9~36.4	Total impurity content	ppm	≤5

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