



Palladium (II) chloride (PdCl_2)

USES

Palladium (II) chloride (PdCl_2) has several notable uses, primarily in chemical synthesis and catalysis. PdCl_2 can catalyze hydrogenation, where it helps add hydrogen to unsaturated compounds like alkenes and alkynes.

TECHNICAL DATA

Color	Brown
State	Solid
size	60-80 nm
morphology	Spherical
Weight (%)	59-60



TECHNICAL DATA SHEET

FEATURES AND BENEFITS

1. **Chemical Composition** – A palladium (II) salt composed of palladium and chlorine (PdCl_2).
2. **Solubility** – Soluble in hydrochloric acid, ammonia, and other complexing agents; limited solubility in water.
3. **Catalytic Properties** – Used as a precursor for palladium catalysts in organic synthesis.
4. **Reactivity** – Forms palladium complexes with ligands, enabling diverse catalytic and material science applications.
5. **Appearance** – Typically a reddish-brown crystalline solid.
6. **Thermal Stability**: Decomposes at high temperatures, forming metallic palladium.
7. **Cost-Efficient Palladium Source**: Compared to bulk palladium metal, PdCl_2 offers a more manageable and soluble form for chemical applications.

Application

- Catalysis
- Hydrogenation
- Hydrogen Gas Sensing
- Electronics and Plating
- Biomedical and Pharmaceutical Applications

PACKAGING

containers in four sizes: 10gr. 50gr. 500gr. 1000gr.

ICP analysis

واحد	نتیجه	موضوع آزمون
W/W %	60.0±3.0	Pd
µg/g	0.001	Na
µg/g	0.005	Ca
µg/g	0.04	Fe
µg/g	0.015	S
µg/g	0.01	Al