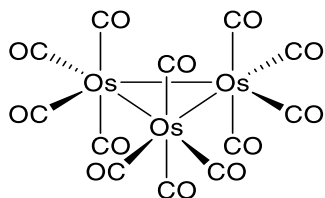


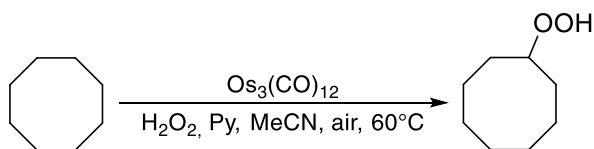
Catalog # 76-2000 Osmium carbonyl, 99%



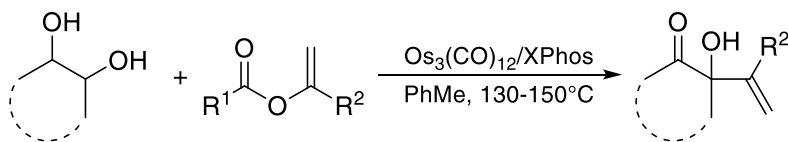
Catalysis Applications

Technical Notes:

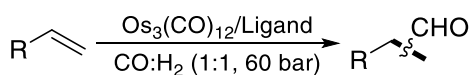
1. Catalyst used for the oxidation of alkanes.
2. Used in Os-catalyzed vinyl transfer from enol carboxylates to 1,2-diols.
3. Used in highly regioselective Os-catalyzed hydroformylation.
4. Used in Os-catalyzed C–C coupling of ethylene and α -olefins with diols, ketols, or hydroxy esters via transfer hydrogenation.



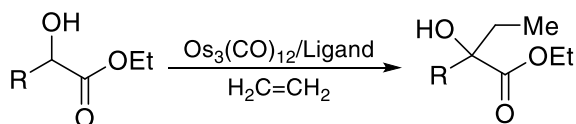
Tech Note (1)
Ref. (1)



Tech Note (2)
Ref. (2)



Tech Note (3)
Ref. (3)



Tech Note (4)
Ref. (4)

References:

1. [Inorg. Chem. 2009, 48, 10480.](#)
2. [J. Am. Chem. Soc. 2015, 137, 7652.](#)
3. [Chem. Commun., 2015, 51, 3080.](#)
4. [J. Org. Chem. 2016, 81, 8585.](#)

CVD/ALD Applications

Thermal Behavior:

- Melting point: 224°C

- TGA data available in [1]
- Vapor pressure studies are available in [2]

Technical Notes:

1. Precursor for Os thin film deposition.

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Os	CVD	50°C	10 ⁻⁵ Torr	-	225°C	3

References:

1. [J. Mater. Chem., 2002, 12, 1363.](#)
2. [J. Phys. Chem. Solids 2005, 66, 241.](#)
3. [Chem. Mater. 1997, 9, 1154.](#)