

TUNGSTEN Hexacarbonyl NANOPOWDER

>99.9%

(Purity)



Tungsten hexacarbonyl (also called tungsten carbonyl) is the chemical compound with the formula $W(CO)_6$. This complex gave rise to the first example of a dihydrogen complex. This colorless compound, like its chromium and molybdenum analogs, is noteworthy as a volatile, air-stable derivative of tungsten in its zero oxidation state. Tungsten carbonyl is widely used in electron beam-induced deposition technique - it is easily vaporized and decomposed by the electron beam providing a convenient source of tungsten atoms

Applications

- ✓ Precursor to a Fischer carbene complex which reduces Pd(II) to nanoparticulate Pd(0) that is catalytically active in Miyaura cross-coupling.
- ✓ Tungsten hexacarbonyl, $[W(CO)_6]$ may be used as a precursor for the deposition of WO_3-x films, which may be used as gas sensors for the detection of NO_2 .

Stock no:

NS6130-12-000420A

Chemical Identifiers

Purity	:	>99.9%
Chemical name	:	$W(CO)_6$
APS	:	100nm
Molecular Weight	:	351.901 g/mol
Density	:	2.65 g/cm ³
Melting Point	:	170 °C



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

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