

Properties: tris(dimethylamine)cyclopentadienyl hafnium referred to as CpHf, chemical formula $C_{11}H_{23}HfN_3$, is a colorless to light yellow liquid. It is easily soluble in common organic solvents at room temperature. Easily reacts with water and oxygen.

Uses: As a Hf source for the preparation of metal organic compounds and complexes; CpHf can also be used to synthesize new organometallic materials and catalysts.

· Identifier

Chemical Formula	$C_{11}H_{23}HfN_3$
CAS No.	941596-80-1
EINECS No.	/

· Physical and chemical properties

Molecular weight	375.81 g/mol	Flash point	/	Reactivity	It reacts with water and oxygen
Appearance	Colorless liquid	Melting point	/	Solubility	Soluble in common organic solvents
Density	/	Boiling point	/	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	Unit	Specification	Impurities	Unit	Specification
Al	ppb	≤ 10	Mg	ppb	≤ 10
As	ppb	≤ 20	Mn	ppb	≤ 20
Ba	ppb	≤ 20	Na	ppb	≤ 50
Be	ppb	≤ 20	Ni	ppb	≤ 10
Ca	ppb	≤ 50	Pb	ppb	≤ 10
Cd	ppb	≤ 30	Sr	ppb	≤ 20
Co	ppb	≤ 10	Tl	ppb	≤ 10
Cr	ppb	≤ 30	Ga	ppb	≤ 50
Cu	ppb	≤ 50	Zr	ppb	≤ 300
Fe	ppb	≤ 50	Mo	ppb	≤ 100
Ge	ppb	≤ 10	Nb	ppb	≤ 100
In	ppb	≤ 10	V	ppb	≤ 50
K	ppb	≤ 10	Zn	ppb	≤ 50
Li	ppb	≤ 10			

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