

TEMAZ



Grade: semiconductor grade

Properties: Tetrakis (ethyl methyl amino) Zirconium, the chemical formula is $\text{Zr}[\text{CH}_3(\text{CH}_3\text{CH}_2)\text{N}]_4$, referred as TEMAZ. TEMAZ has good stability and pretty high thermal stability. It is a light yellow liquid and soluble in non-polar solvents, such as petroleum ether and dichloromethane, but insoluble in water. It is stable in the air, but reacts with strong oxidants, acids and bases.

Uses: (ALD/CVD) precursor used to zirconium containing film deposition, organozirconium metal catalyst synthesis

· Identifier

Chemical Formula	$\text{Zr}[\text{CH}_3(\text{CH}_3\text{CH}_2)\text{N}]_4$
CAS No.	175923-04-3
EINECS No.	/

· Physical and chemical properties

Molecular weight	323.6 g/mol	Flash point	50 °C	Reactivity	In the event of a drastic response, it is highly flammable
Appearance	Light yellow liquid	Melting point	/	Solubility	Insoluble in water Soluble in organic solvent
Density	1.049 g/cm ³	Boiling point	81 °C (0.1hpa)	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	Unit	Specification
Ca	ppb	≤30
Cr	ppb	≤10
Cu	ppb	≤10
Fe	ppb	≤30
Mg	ppb	≤30
Mn	ppb	≤10
Ni	ppb	≤10
V	ppb	≤10
Zn	ppb	≤10

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