

Mg (CH₃C₅H₄)₂

Properties: Bis(methylcyclopentadienyl)magnesium (chemical formula Mg(CH₃C₅H₄)₂), an organic compound, which is a transparent light yellow to colorless liquid with high reactivity and thermal stability.

Uses: It is an important source material for the growth of compound semiconductor materials by metal-organic vapor deposition technology (MOCVD), mainly used as P-type doping material for semiconductor materials, applied in the preparation of compound semiconductor materials such as GaN, AlGaIn, Indium Gallium Arsenide Nitride (InGaAsN), Indium Gallium Arsenide (InGaAs) and other compound semiconductor materials, and has important application value in the development of high brightness light-emitting diodes, solar cells, lasers, and other optoelectronic devices. It has important application value in the development of high brightness light-emitting tubes, solar cells, lasers and other optoelectronic devices.

· Identifier

Chemical Formula	Mg(CH ₃ C ₅ H ₄) ₂
CAS No.	40672-08-0
EINECS No.	/

· Physical and chemical properties

Molecular weight	182.545 g/mol	Flash point	290℃	Reactivity	combustible liquid, reacts violently with water
Appearance	light yellow to colorless liquid	Melting point	29℃	Solubility	Insoluble in water
Density	/	Boiling point	84℃	Storage	Avoid light, anhydrous

· Metal impurities

Impurities	Unit	Specification	Impurities	Unit	Specification
Al	ppm	< 5	Mn	ppm	< 10
Ca	ppm	< 5	Ni	ppm	< 10
Cr	ppm	< 5	Pb	ppm	< 10
Cu	ppm	< 5	Sn	ppm	< 10
Fe	ppm	< 10	Zn	ppm	< 5

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