

# TMI<sub>n</sub>

Properties: White crystal at room temperature and atmospheric pressure, with special odor. Easily hydrolyzed to form methane. Need to be stored under inert atmosphere. Soluble with aliphatic saturated hydrocarbons such as hexane, heptane and aromatic hydrocarbons such as toluene and xylene in any proportion.

Uses: Deposition of indium-containing thin films by MOCVD technology; preparation of compound semiconductor materials such as indium nitride and indium phosphide; laser field.

## · Identifier

Chemical Formula	In(CH <sub>3</sub> ) <sub>3</sub>
CAS No.	3385-78-2
EINECS No.	222-200-9

## · Physical and chemical properties

Molecular weight	159.92 g/mol	Flash point	-18°C	Reactivity	Have good stability and relative Lower volatility
Appearance	white crystal	Melting point	88°C	Solubility	Soluble in many organic solvents such as ether and Benzene
Density	1.568 g/cm <sup>3</sup>	Boiling point	135.7°C	Storage	stored in the noble gas

## · Metal impurities

Impurities	Unit	Specification	Impurities	Unit	Specification
Ag	ppm	≤0.2	Mn	ppm	≤0.03
Al	ppm	≤0.1	Ni	ppm	≤0.2
As	ppm	≤0.5	Pb	ppm	≤1
B	ppm	≤0.2	S	ppm	≤1
Ba	ppm	≤0.1	Sb	ppm	≤0.5
Be	ppm	≤0.02	Si	ppm	≤0.05
Bi	ppm	≤0.5	Sn	ppm	≤1
Ca	ppm	≤0.05	Sr	ppm	≤0.1
Cd	ppm	≤0.02	Ti	ppm	≤0.1
Co	ppm	≤0.2	Zn	ppm	≤0.2
Cr	ppm	≤0.2	V	ppm	≤0.3
Cu	ppm	≤0.05	Pd	ppm	≤0.5
Fe	ppm	≤0.1	Pt	ppm	≤0.5
Hg	ppm	≤0.5	O	ppm	≤1
Mg	ppm	≤0.02	/	/	/



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