

InCl₃

Properties: White powder solid under normal temperature and pressure, sublimates at 300 °C. High purity anhydrous indium trichloride has a strong hydrophilicity, and indium trichloride absorbs water and deliquesces, generating indium trichloride hydrate or indium hydroxide. Indium trichloride is recommended for sealed packaging in a vacuum or inert atmosphere.

Uses: Organic reaction catalysts, solar cell manufacturing, synthesis of organic indium series compounds, integrated circuit doping sources.

· Identifier

Chemical Formula	InCl ₃
CAS No.	10025-82-8
EINECS No.	233-043-0

· Physical and chemical properties

Molecular weight	221.18 g/mol	Flash point	/	Reactivity	highly hydrolyzable
Appearance	white powder	Melting point	586 °C	Solubility	Very soluble in water, slightly soluble in ethanol and ether
Density	3.46 g/cm ³	Boiling point	600 °C	Storage	keep sealed and anhydrous

· Impurities

Impurities	ITC-050 (5N/ppm)	ITC-055 (5.5N/ppm)	Impurities	ITC-050 (5N/ppm)	ITC-055 (5.5N/ppm)
Na	≤1	≤1	Pb	≤1	≤0.35
Mg	≤1	≤0.35	Si	≤1	≤1
Al	≤1	≤0.35	Cd	≤1	≤0.35
Ag	≤1	≤0.35	Hg	≤1	< 0.7
Cr	≤1	≤0.35	Mo	≤1	≤0.35
Fe	≤1	≤0.53	Sb	≤1	≤0.35
Ni	≤1	≤0.35	Tl	≤1	≤0.35
Cu	≤1	≤0.35	B	/	≤0.5
Zn	≤1	≤0.35	Ca	/	≤0.5
As	≤1	≤0.35	Ti	/	≤0.35
Bi	≤1	≤0.35	V	/	≤0.35
Sn	≤1	≤0.35	Ba	/	≤0.35

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