

InCl₃



VITAL
Grade: 5N/5.5N

Properties: Indium trichloride is a white crystalline powder at room temperature and atmospheric pressure, sublimates at 300°C and volatilizes at 600°C. High purity anhydrous indium trichloride has strong hydrophilicity and will be hydrolyzed rapidly to produce oxygenated indium oxide complex when exposed to air, indium trichloride must be sealed and packed in 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	63°C	Reactivity	highly hydrolyzable
Appearance	white powder	Melting point	262°C	Solubility	Very soluble in water, slightly soluble in ethanol and ether
Density	3.46 g/cm ³	Boiling point	300°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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