

TEGa

Properties: Colorless transparent liquid at room temperature and atmospheric pressure, volatile at room temperature and atmospheric pressure, with irritating odor. Triethylgallium is stored in an inert atmosphere. Triethylgallium is soluble in organic solvents such as ether and benzene.

Uses: Metal Organic Chemical Vapor Deposition (MOCVD), Chemical Beam Epitaxy (CBE) in the growth of optoelectronic materials the most important and largest amount of raw materials.

· Identifier

Chemical formula	Ga(C ₂ H ₅) ₃
CAS No.	1115-99-7
EINECS No.	214-232-7

· Physical and chemical properties

Molecular weight	156.906 g/mol	Flash point	-18 °C	Reactivity	Highly reactivity, spontaneous combustion in the air
Appearance	Colorless transparent liquid	Melting point	-82.3 °C	Solubility	Soluble in many organic solvents such as ether and Benzene
Density	1.058 g/cm	Boiling point	143 °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	≤0.2
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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