TMGa



Properties: Colorless transparent liquid at room temperature and atmospheric pressure, easily oxidized in air, spontaneous combustion at room temperature, producing white smoke of metal oxides, and will decompose itself at high temperature. It is soluble in any proportion in aliphatic saturated hydrocarbons such as hexane and heptane and aromatic hydrocarbons such as toluene and xylene. Reacts violently with water to form Me₂GaOH and [(Me₂Ga)₂O]X, and produces methane.

Uses: Preparation of gallium-containing thin films and synthesis of gallium nitride (GaN) and gallium compound semiconductor materials; preparation of semiconductor compounds such as GaAs and AsGaAl; preparation of electronic components such as light-emitting diodes.

· Identifier

· Physical and chemical properties

Chemical Formula	Ga(CH₃)₃	
CAS No.	1445-79-0	
EINECS No.	215-897-6	

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Molecular weight	114.83 g/mol	Flash point	-18℃	Reactivity
Appearance	Colorless transparent liquid	Melting point	-15.8℃	Solubility
Density	1.151 g/cm³	Boiling point	55.8℃	Storage

Highly reactivity, spontaneous combustion in the air
Soluble in non -polar organic solvent
stored in the noble gas

· Metal impurities

Impurities	Unit	Specification	Impurities	Unit	Specification
Ag	ppm	≤0.2	Mg	ppm	≤0.02
Al	ppm	≤0.1	Mn	ppm	≤0.03
As	ppm	≤0.5	Ni	ppm	≤0.2
В	ppm	≤0.2	Pb	ppm	≤1
Ba	ppm	≤0.1	S	ppm	≤1
Ве	ppm	≤0.02	Sb	ppm	≤0.5
Bi	ppm	≤0.5	Si	ppm	≤0.2
Ca	ppm	≤0.05	Sn	ppm	≤1
Cd	ppm	≤0.02	Sr	ppm	≤0.1
Co	ppm	≤0.2	Ti	ppm	≤0.1
Cr	ppm	≤0.2	Zn	ppm	≤0.2
Cu	ppm	≤0.05	V	ppm	≤0.3
Fe	ppm	≤0.1	Pd	ppm	≤0.5
Ge	ppm	≤0.5	Pt	ppm	≤0.5
Hg	ppm	≤0.5	0	ppm	≤1

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