MO Sources

A MATERIALS TECHNOLOGY COMPANY
VITAL

MO sources are key materials of the semiconductor microstructure growth by MOCVD technologies, which have been widely used in the fields of LED, solar cell, aerospace, etc.

Our products include Trimethylgallium (TMGa), Triethylgallium (TEGa), Trimethylindium (TMIn), Trimethylaluminium (TMAl) and other MO sources are able to meet the demands of the LED industry, such as lighting, display, indicator lights, car lights, backlights, toys and other fields.

General information

	TMGa	TEGa	TMIn	TMAl
Formula	$Ga(CH_3)_3$	$Ga(C_2H_5)_3$	$In(CH_3)_3$	$Al(CH_3)_3$
Purity	6N	6N	6N	6N
Grade	Adduct	Adduct	Adduct	Adduct
Package	500g, 1kg, 4 kg, 7.2 kg, 14 kg, 16 kg	1kg, 4kg	350g, 850g	350g

Specification

	TMGa /ppm	TEGa /ppm	TMIn /ppm	TMAl /ppm
Ag	≤0.2	≤0.2	≤0.2	≤0.2
As	≤0.5	≤0.5	≤0.5	≤0.5
B	≤0.2	≤0.2	≤0.2	≤0.2
Ba	≤0.1	≤0.1	≤0.1	≤0.1
Be	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02
Bi	≤0.5	≤0.5	≤0.5	≤0.5
Ca	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05
Cd	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02
Co	≤0.2	≤0.2	≤0.2	≤0.2
Cr	≤0.2	≤0.2	≤0.2	≤0.2
Cu	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05
Fe	≤0.1	≤0.1	≤0.1	≤0.1
Hg	≤0.5	≤0.5	≤0.5	≤0.5
Mg	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02
Mn	≤ 0.03	≤ 0.03	≤ 0.03	≤ 0.03
Ni	≤0.2	≤0.2	≤0.2	≤0.2
Pb	≤ 1	≤ 1	≤ 1	≤ 1
S	≤ 1	≤ 1	≤ 1	≤ 1
Si	≤0.2	≤0.2	≤ 0.05	≤0.5
Sn	≤ 1	≤ 1	≤ 1	≤ 1
Sr	≤0.1	≤0.1	≤0.1	≤0.1
Ti	≤0.1	≤0.1	≤0.1	≤0.1
Zn	≤0.2	≤0.2	≤0.2	≤0.2
V	≤0.3	≤0.3	≤0.3	≤0.3
Pd	≤0.5	≤0.5	≤0.5	≤0.5
Pt	≤0.5	≤0.5	≤0.5	≤0.5
Al	≤0.1	≤0.1	≤0.1	/
Sb	≤0.5	≤0.5	≤0.5	/
Ge	≤0.5	/	/	≤0.5
Nb	/	/	/	≤0.2
Mo	/	/	/	≤0.2

All values PPM by weight on metal
FT-NMR Result: No organic or oxygen impurities detected.

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