



ORDER DESCRIPTION

1. Object of the contract

The subject of the order is the supply of organometallic compounds in specialized containers (bubbler), listed below by name and quantity needed:

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|------------------------------------|--------------|
| 1. Trimethylgallium (TMGa OEG) | 1000g 1 pc. |
| 2. Trimethylaluminum (TMAI OEG) | 380g bubbler |
| 3. Trimethylindium (TMIn OEG) | 1000g 3 pcs |
| 4. Trimethylindium (TMIn OEG) | 300g bubbler |
| 5. Diisopropyltelluride (DIPTe EG) | 250g 1 pc. |

2. Parameters

Product name	Parameter	Specification
Trimethylgallium TMGa	OPTO ELECTRONIC-GRADE	
	Metal purity:	- Gallium (unit: %): - Specification > 99,9999 - Oxygen (unit:PPM, NMR) - LOD (limit of detection) <0,5 - Specification < 1
	Metal impurities (ICP) (unit: PPM): Aluminium (Al), Antimony (Sb), Arsenic (As), Bismuth (Bi), Chromium (Cr), Copper (Cu), Germanium (Ge), Indium (In), Iron (Fe), Lead (Pb), Magnesium (Mg), Manganese (Mn), Selenium (Se), Phosphorous (P), Silicon (Si), Sulfur (S), Tellurium (Te), Tin (Sn), Zinc (Zn)	- Specification < 0,1 - LOD (limit of detection) 0,01
	Metal impurities: Cadmium (Cd), Mercury (Hg)	- Specification < 0,01 - LOD (limit of detection) 0,001
	Bubbler	With cross purge valve
Product name	Parameter	Specification
Trimethylaluminium TMAI	OPTO ELECTRONIC-GRADE	- ALUMINIUM (unit: %): - Specification > 99,9999 - Oxygen (unit:PPM, NMR) - LOD (limit of detection) <0,5 - Specification < 1
	Metal purity:	Specification < 0,1



		• LOD (limit of detection) 0,01
	Metal impurities (ICP) (unit: PPM): Antimony (Sb), Arsenic (As), Bismuth (Bi), Chromium (Cr), Copper (Cu), Gallium (Ga), Germanium (Ge), Indium (In), Iron (Fe), Lead (Pb), Magnesium (Mg), Manganese (Mn), Selenium (Se), Phosphorous (P), Silicon (Si), Sulfur (S), Tellurium (Te), Tin (Sn), Zinc (Zn)	• Specification < 0,01 • LOD (limit of detection) 0,001
	Metal impurities: Cadmium (Cd), Mercury (Hg)	• with bypass valve
	bubbler	
Product name	Parameter	Specification
Trimethylindium TMIn	OPTO ELECTRONIC-GRADE	
	Metal purity:	• Indium (unit: %): ◦ Specification > 99,9999 • Oxygen (unit:PPM, NMR) ◦ Specification < 1
	Metal impurities (ICP) (unit: PPM): Aluminium (Al), Antimony (Sb), Arsenic (As), Bismuth (Bi), Chromium (Cr), Copper (Cu), Gallium (Ga), Germanium (Ge), Iron (Fe), Lead (Pb), Magnesium (Mg), Manganese (Mn), Selenium (Se), Phosphorous (P), Silicon (Si), Sulfur (S), Tellurium (Te), Tin (Sn), Zinc (Zn)	• Specification < 0,1
	Metal impurities: Cadmium (Cd), Mercury (Hg)	• Specification < 0,01
	Bubbler	• with bypass valve
Diisopropyltelluride DiPTe	ELECTRONIC-GRADE	•
	Metal purity:	• Tellurium (unit: %): ◦ Specification > 99,9999 • Oxygen (unit:PPM, NMR) ◦ LOD (limit of detection) <0,5 • Specification < 1
	Metal impurities (ICP) (unit: PPM): Aluminium (Al),	• Specification < 0,01 • LOD (limit of detection) 0,01



	Antimony (Sb), Arsenic (As), Bismuth (Bi), Chromium (Cr), Copper (Cu), Gallium (Ga), Germanium (Ge), Indium (In), Iron (Fe), Lead (Pb), Magnesium (Mg), Manganese (Mn), Selenium (Se), Phosphorous (P), Silicon (Si), Sulfur (S), Tellurium (Te), Tin (Sn), Zinc (Zn)	
	Metal impurities: Cadmium (Cd), Mercury (Hg)	• Specification < 0,01 • LOD (limit of detection) 0,001
	Bubbler	• With cross purge valve