

PRODUCT DATA SHEET

Indium Monoiodide

InI

Introduction

Indium Monoiodide is composed of indium in the +1 oxidation state and iodine. It is relatively stable in dry air but reacts slowly with moisture, decomposing in water. It is mostly used in optoelectronic materials, radiation detectors, and as a precursor in thin-film synthesis.

Properties

Other Names	Indium (I) iodide, Indium(1+) iodide, InI
CAS	13966-94-4
Particle Shape/Appearance	Deep purple to red-brown crystalline solid*
Molecular Weight	241.722g/mol
Density	5.32g/cm ³
Melting Point	351–365°C
Boiling Point	712°C
Theoretical Indium Percentage	47.5%
Crystalline Structure	Orthorhombic
Purity	99.99% (4N), 99.999% (5N), and above
Primary Uses	Radiation detectors, IR optics, semiconductor and thin-film precursor

*The color shown in images is representative and may differ from the actual product due to factors such as lighting conditions, surface oxidation, or digital rendering variations.

Technical Support

Indium Corporation sets the industry standard in providing rapid response, onsite technical support for our customers worldwide. Indium Corporation's team of Technical Support Engineers can provide expertise in all aspects of Materials Science.

Safety Data Sheets

Please refer to the SDS document within the product shipment, or contact our local team to receive a copy.



Standard Packaging**

10g to 2kg quantity packages in a vacuum-sealed aluminum-layered plastic bag or a glass jar.

**Packaging in other sizes or containers may be available upon request.

Storage and Shelf Life

- **Indium Monoiodide** should be stored at room temperature with the container kept tightly sealed.
- Stable under dry conditions; decomposes in contact with water.
- **Indium Monoiodide** has a shelf life of 12 months in original packaging.

This product data sheet is provided for general information only. It is not intended, and shall not be construed, to warrant or guarantee the performance of the products described which are sold subject exclusively to written warranties and limitations thereon included in product packaging and invoices. All Indium Corporation's products and solutions are designed to be commercially available unless specifically stated otherwise.

All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

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