

## PRODUCT DATA SHEET

# Indium Triiodide



### Introduction

**Indium Triiodide** is a yellow to brown hygroscopic crystalline compound containing indium in the +3 oxidation state. It is highly soluble in water and forms dimeric units in its solid structure. **Indium Triiodide** is used as a catalyst in organic synthesis, as a source of indium in materials research, and in specialized optical and electronic applications due to its unique coordination chemistry and semiconducting properties.



### Properties

Other Names	Indium (III) iodide, Indium(3+) iodide, $\text{InI}_3$
CAS	13510-35-5
Particle Shape/Appearance	Yellow to reddish-brown crystalline solid*
Molecular Weight	495.531g/mol
Density	4.69g/cm <sup>3</sup>
Melting Point	207–210°C
Theoretical Indium Percentage	23.17%
Crystalline Structure	Monoclinic
Purity	99.99% (4N), 99.999% (5N), and above
Primary Uses	Catalyst, indium source, and precursor for thin-film deposition in optical, electronic, and solar cell applications

\*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.

### 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 Triiodide** should be stored at room temperature with the container kept tightly sealed.
- Handle in dry conditions. Highly deliquescent—rapidly absorbs moisture from its environment.
- **Indium Triiodide** has a shelf life of 12 months in original packaging.

### 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.

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.

## From One Engineer To Another®

Contact our engineers: [askus@indium.com](mailto:askus@indium.com)

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