

PRODUCT DATA SHEET

Indium Acetate



Introduction

Indium acetate is a white powder that is freely soluble in mineral acids. It consists of needle-shaped crystals, which decompose to indium oxide upon heating. **Indium acetate** is available in the grades listed below.

Properties

Chemical Formula	$\text{In}(\text{CH}_3\text{COO})_3$
Molecular Weight	291.94
General Description	- White powder with a characteristic acetic odor - Needle-shaped crystalline morphology
Uses	- InP quantum dots (precursor) - Chemical synthesis (precursor) - Alkaline battery chemistries (reduce outgassing and improve efficiency)
Purity	4N5 (99.995%)
Solubility	- Freely soluble in mineral acids - Also soluble in carboxylic acids at elevated temperatures
Tap Density	<1g/cc
Indium Percentage	Available in 3 grades, with In % ranges as shown in table below

Note: Because the indium acetate produced is basic acetate, it will contain more indium as metal than theoretical (39.3%).

Indium Acetate Grade	In %
Standard	41.5–44.5%
Premium	44.5–45.5%
Premium Plus	45.0–46.0%



Standard Packaging for Powder

Quantity*	Container
1.25kg	3.8 liter plastic (HDPE)
0.33kg	1 liter plastic (HDPE)

**All package sizes contain suitable desiccant. Packaging in other sizes or in glass may be available upon request.*

Storage and Shelf Life

Indium acetate should be stored at room temperature and the container kept tightly sealed. **Indium acetate** has a shelf life of 12 months.

Safety Data Sheets

The SDS for this product can be found online at <http://www.indium.com/sds>

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Contact our engineers today: askus@indium.com

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ASIA +65 6268 8678 • CHINA +86 (0) 512 628 34900 • EUROPE +44 (0) 1908 580400 • USA +1 315 853 4900

Form No. 97539 (A4) R10



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