

## 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

<b>Chemical Formula</b>	$\text{In}(\text{CH}_3\text{COO})_3$
<b>Molecular Weight</b>	291.94
<b>General Description</b>	<ul style="list-style-type: none"><li>• White powder with a characteristic acetic odor</li><li>• Needle-shaped crystalline morphology</li></ul>
<b>Uses</b>	<ul style="list-style-type: none"><li>• InP quantum dots (precursor)</li><li>• Chemical synthesis (precursor)</li><li>• Alkaline battery chemistries (reduce outgassing and improve efficiency)</li></ul>
<b>Purity</b>	4N5 (99.995%)
<b>Solubility</b>	<ul style="list-style-type: none"><li>• Freely soluble in mineral acids</li><li>• Also soluble in carboxylic acids at elevated temperatures</li></ul>
<b>Tap Density</b>	<1g/cc
<b>Indium Percentage</b>	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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