

## Synthesis, Characterization and Decomposition Studies of Tris(n, N-Dibenzylidithiocarbamato) Indium(iii): Chemical Spray Deposition of Polycrystalline



Synthesis, Characterization and Decomposition Studies of Tris(N,N-dibenzylidithiocarbamato) Indium(III): Chemical Spray Deposition of Polycrystalline CuInS<sub>2</sub> on Copper Films

NASA Technical Reports Server  
(NTRS), et al., David G. Hehemann

Filesize: 9.65 MB

### Reviews

*Comprehensive manual for publication lovers. We have read through and so i am confident that i am going to going to read yet again once more down the road. I am easily could get a enjoyment of looking at a created pdf.*

*(Guy Ruecker)*

## **SYNTHESIS, CHARACTERIZATION AND DECOMPOSITION STUDIES OF TRIS(N, N-DIBENZYLIDITHIOCARBAMATO) INDIUM(III): CHEMICAL SPRAY DEPOSITION OF POLYCRYSTALLINE**



[DOWNLOAD PDF](#)

Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Tris(bis(phenylmethyl)carbamodithioato-S, S ), commonly referred to as tris(N, Ndibenzylidithiocarbamato) indium(III), In(S<sub>2</sub>CNBz<sub>2</sub>)<sub>3</sub>, was synthesized and characterized by single crystal X-ray crystallography. The compound crystallizes in the triclinic space group P1 bar with two molecules per unit cell. The material was further characterized using a novel analytical system employing the combined powers of thermogravimetric analysis, gas chromatography/mass spectrometry and Fourier-Transform infrared spectroscopy to investigate its potential use as a precursor for the chemical vapor deposition (CVD) of thin film materials for photovoltaic applications. Upon heating, the material thermally decomposes to release CS<sub>2</sub> and benzyl moieties into the gas phase, resulting in bulk In<sub>2</sub>S<sub>3</sub>. Preliminary spray CVD experiments indicate that In(S<sub>2</sub>CNBz<sub>2</sub>)<sub>3</sub> decomposed on a Cu substrate reacts to produce stoichiometric CuInS<sub>2</sub> films. This item ships from La Vergne, TN. Paperback.



[Read Synthesis, Characterization and Decomposition Studies of Tris\(n, N-Dibenzylidithiocarbamato\) Indium\(III\): Chemical Spray Deposition of Polycrystalline Online](#)

 [Download PDF Synthesis, Characterization and Decomposition Studies of Tris\(n, N-Dibenzylidithiocarbamato\) Indium\(III\): Chemical Spray Deposition of Polycrystalline](#)

## Other Books

---



### **Animalogy: Animal Analogies**

Sylvan Dell Publishing. Paperback. Book Condition: New. Cathy Morrison (illustrator). Paperback. 32 pages. Dimensions: 9.8in. x 8.4in. x 0.4in. Compare and contrast different animals through predictable, rhyming analogies. Find the similarities between even the most incompatible...

[Read ePUB »](#)

---



### **The Whale Tells His Side of the Story Hey God, I've Got Some Guy Named Jonah in My Stomach and I Think I'm Gonna Throw Up**

B&H Kids. Hardcover. Book Condition: New. Cory Jones (illustrator). Hardcover. 32 pages. Dimensions: 9.1in. x 7.2in. x 0.3in. Oh sure, well all heard the story of Jonah and the Whale a hundred times. But have we...

[Read ePUB »](#)

---



### **Good Night, Zombie Scary Tales**

Feiwel & Friends. Paperback. Book Condition: New. Iacopo Bruno (illustrator). Paperback. 112 pages. Dimensions: 8.2in. x 5.4in. x 0.2in. Welcome. Have a seat. Ignore the shambling undead outside. Let us tell you a story. But be...

[Read ePUB »](#)

---



### **God Loves You. Chester Blue**

Henry and George Press. Paperback. Book Condition: New. Ursula Andrejczuk (illustrator). Paperback. 140 pages. Dimensions: 8.0in. x 5.2in. x 0.3in. BEAUTIFUL NEW ILLUSTRATIONS BRING THE STORY TO LIFE! A charming book about a mysterious bear that shows...

[Read ePUB »](#)

---



### **Yearbook Volume 15**

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 58 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This historic book may have numerous typos and missing text. Purchasers can usually download a free...

[Read ePUB »](#)



### **By the Fire Volume 1**

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 130 pages. Dimensions: 9.0in. x 6.0in. x 0.3in. By the Fire is an exciting new Bi-Monthly publication featuring new works by

[Download Book »](#)

---



### **Gypsy Breynton**

Echo Library. Paperback. Book Condition: New. Paperback. 88 pages. Dimensions: 9.0in. x 6.0in. x 0.2in. Hon. Gypsy Breynton, Esq., M. A., D. D., LL. D., c., c. Gypsy Breyiiton, R, R.

[Download Book »](#)

---



### **Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications . (Paperback)**

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. This historic book may have numerous typos and missing text. Purchasers can usually

[Download Book »](#)

---



### **Marm Lisa**

Echo Library. Paperback. Book Condition: New. Paperback. 80 pages. Dimensions: 9.0in. x 6.0in. x 0.2in. Kate Douglas Wiggin, nee Smith (1856-1923) was an American childrens author and educator. She was born in Philadelphia, and was of

[Download Book »](#)

---



### **The Pickthorn Chronicles**

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 112 pages. Dimensions: 9.0in. x 6.0in. x 0.3in. Pickthorn has selected some great stories as a sequel to his first book,

[Download Book »](#)