

Accepted Manuscript

Title: Does thiosemicarbazide lead nitrate (TSLN) crystal exist?

Author: Royle Fernandes Bikshandarkoil R. Srinivasan

PII: S0030-4026(16)00187-X  
DOI: <http://dx.doi.org/doi:10.1016/j.ijleo.2016.01.138>  
Reference: IJLEO 57248

To appear in:

Received date: 7-12-2015  
Accepted date: 18-1-2016

Please cite this article as: R. Fernandes, B.R. Srinivasan, Does thiosemicarbazide lead nitrate (TSLN) crystal exist?, *Optik - International Journal for Light and Electron Optics* (2016), <http://dx.doi.org/10.1016/j.ijleo.2016.01.138>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## Does thiosemicarbazide lead nitrate (TSLN) crystal exist?

Royle Fernandes<sup>a</sup>, Bikshandarkoil R. Srinivasan<sup>b</sup>

<sup>a</sup>Department of Chemistry, Smt Parvatibai Chowgule College of Arts & Science,  
Margao, Goa 403 602 Email: [roylefernandes43@gmail.com](mailto:roylefernandes43@gmail.com)

<sup>b</sup>Department of Chemistry, Goa University, Goa 403206, INDIA  
Email: [srini@unigoa.ac.in](mailto:srini@unigoa.ac.in)

### Abstract

The authors of a recent paper (Optik 125 (2014) 2022-2025) claim to have grown a so called thiosemicarbazide lead nitrate (TSLN) crystal by the slow evaporation method. In this comment we prove that TSLN is actually thiosemicarbazide.

**Keywords:** Crystal Growth; Thiosemicarbazide lead nitrate; Slow evaporation method; dubious crystal; thiosemicarbazide

### Comment

During the course of a literature survey we came across the title paper by Shakila and Kalainathan [1] reporting in the abstract “Single crystal XRD study revealed that materials crystallized with triclinic crystal structure and its belongs to centrosymmetric space group Cc and powder X-ray diffraction(XRD) is to confirm the crystalline nature of the crystal...”, In view of a strange space group assignment in the triclinic crystal system this paper attracted our attention and was taken up for scrutiny for verification of the claim. A perusal of the paper reveals that the authors have grown crystals of a so called thiosemicarbazide lead nitrate, by the slow evaporation solution method. It is noted that in addition to an unusual name viz. thiosemicarbazide lead nitrate, not in accordance with IUPAC nomenclature, the crystals are abbreviated by a strange code TSL.

Download English Version:

<https://daneshyari.com/en/article/847479>

Download Persian Version:

<https://daneshyari.com/article/847479>

[Daneshyari.com](https://daneshyari.com)