

## Hierarchical structure by X-ray Diffraction of new open frame-work

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## Abstract

Compound based on tin have a great deal of attention especially inorganic–organic hybrid materials [1.2] due to their potential application in many areas industrial and agricultural importance [1]and anti-tumer activity [3] many application of organotin IV complexes have been extensively discussed by Evan [4] In our research we are focused compounds on dicrboxylate which exhibit properties that combine the functionality of the organic amine and oxalate by hydrogen bonded forming open fram work the synthetic and structural study by x-ray diffraction of the novel salt based on tin and oxalate have been prepared by soft voice method in the presence of 4-amino pyridine The crystal structure of the title compound 2(C5H6N2) [Sn(C2O4)2 2Cl], have been prepared by soft voice and the structure contains two 4-amino pyridinium and one stannate(IV) dianion For an example of a related oxalatostannate(IV) complexe [2]. wich coordinate by two bidentate oxalate ligands and two chloride anions in cis positions formed octahedral of the central SnIV atom. The cohesion of the molecular entities is ensured by the formation of N–HO, C–HO, interactions forming open fram work .The X-ray diffraction of a single crystal of Bis 4-Amino pyridinum Cis dichloro Bis oxalate stannate(IV) showed that the unit cell is monoclinic ,space group P21/n with a= 7.4025 (2) Å, b=19.5040 (6) Å,c=13.2793 (4) Å ,  $\beta$ =92.034 (2)°with Z=4 unit formulas/unit cell ,the structure refinement resulted in final R=0.0314,Rw=0.0694and Goof=1.056.

## Biography

Rima GHERIBI currently works at the Department of Chemistry , and Biochemistry, Concordia University. Rima Gheribi does research in Applied Mathematics and Analysis.



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