

**SINTESIS DAN STRUKTUR KRISTAL KOMPLEKS TURUNAN TRIMETIL TIMAH
KLORIDA SYNTHESIS AND CRYSTAL STRUCTURE OF COMPLEX COMPOUND OF
TRIMETYLTIN CHLORIDE**

Asrial

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Abstract: Trimetyltin-1,1,2,3,3- pentacyanopropenid compound is the stable organometall complex, which is macromolecules compound. This compound is synthesized from trimetyltinchlorid, $(\text{CH}_3)_3\text{SnCl}$, and silver pentacyanopropenid, AgC_3N_5 , in water. This compound crystallized in orthorombic and in space group Pnnm. Crystal data show that: $a = 7.794(1) \text{ \AA}$, $b = 10.821(1) \text{ \AA}$, $c = 11.462(1) \text{ \AA}$ pm; $\alpha = \beta = 90^\circ$, $\gamma = 103.84^\circ$; cell volume = $966.80 (16) \text{ \AA}^3$. Compound structure arranged in two ion, namely $[\text{C}_3(\text{CN})_5]^-$ anion and $[(\text{CH}_3)_3]^+$ cation.

Keyword: *trimetyltin, pentacyanopropenid*