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

Keyword: trimetyltin, pentacyanopropenid