

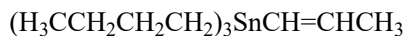


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>>Entry Name: **Allyltributylstannane**

**Synonym(s):** Tributyl-1-propenylstannane, 9Cl. 1-(Tributylstannyl)-1-propene

**CAS Registry Number:** 105494-65-3



**Molecular Formula:**  $\text{C}_{15}\text{H}_{32}\text{Sn}$

**Molecular Weight:** 331.128

**Accurate Mass:** 330.1526

**Percentage Composition:** C 54.41%; H 9.74%; Sn 35.85%

**Source/Synthesis:** Synth. from  $\text{H}_3\text{CCH}=\text{CHMgBr}$  + Hexabutyldistannoxane [GGH50-Z](#)

**Use/Importance:** Couples with allyl derivs. in the presence of Pd complex catalysts, regioselective for less hindered site of allyl group; reacts with acyl halides in the presence of Lewis acid catalysts; with vinyl halides in the presence of CO and Pd(0) → vinyl ketones; undergoes conjugate addn. to enals in the presence of  $\text{Ni}(\text{cod})_2$  and  $\text{R}_3\text{SiCl}$

**Physical Description:** Liq.

**Boiling Point:**  $\text{Bp}_{0.4}$  90-92°

>>Variant: (E)-form

**CAS Registry Number:** 66680-85-1

**Molecular Formula:**  $\text{C}_{15}\text{H}_{32}\text{Sn}$

**Molecular Weight:** 331.128

**Accurate Mass:** 330.1526

**Percentage Composition:** C 54.41%; H 9.74%; Sn 35.85%

**Physical Description:** Liq.

>>Variant: (Z)-form

**CAS Registry Number:** 66680-84-0

**Molecular Formula:**  $\text{C}_{15}\text{H}_{32}\text{Sn}$

**Molecular Weight:** 331.128

**Accurate Mass:** 330.1526

**Percentage Composition:** C 54.41%; H 9.74%; Sn 35.85%

**Physical Description:** Liq.

**Boiling Point:**  $\text{Bp}_{0.25}$  77-78°

**References:**