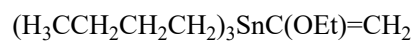




>>Entry Name: Tributyl(1-ethoxyethenyl)stannane, 9CI

Synonym(s): Tributyl(1-ethoxyvinyl)stannane

CAS Registry Number: 97674-02-7



Molecular Formula: $\text{C}_{16}\text{H}_{34}\text{OSn}$

Molecular Weight: 361.154

Accurate Mass: 360.163165

Percentage Composition: C 53.21%; H 9.49%; O 4.43%; Sn 32.87%

Source/Synthesis: Obt. by trapping the corresp. lithio enolate with Bu_3SnCl

Use/Importance: Substitutes aryl, vinyl, allyl, benzyl, acyl halides in the presence of Pd complex catalysts; couples with ArBr in the presence of Pd(0) to give a mixt. of (*E*)- and (*Z*)-vinyl ethers; reacts with aryl aldehydes to give a mixt. of *syn*- and *anti*-vinyl ethers; in the presence of $\text{BF}_3 \cdot \text{Et}_2\text{O}$, isomerises to $\text{Bu}_3\text{SnCH}=\text{CHOEt}$ which reacts with aryl aldehydes to give mainly *syn*- α -glycol monoethers

Physical Description: Liq.

Boiling Point: $\text{Bp}_{0.4} 106^\circ$

Aldrich: 27512-3

References:

Gadwood, R.C. *et al.*, *J.O.C.*, 1985, **50**, 3255, (*synth, ir, pmr*)

Kosugi, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1987, **60**, 767, (*pmr, use*)