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# Bu<sub>3</sub>SnX

### One Old and Three New!

The popularity of organotin reagents in synthesis has increased markedly in recent years. In response to this growing interest, Aldrich has added substantially to its line of tin reagents, particularly those reagents featuring the tributyltin moiety, since they have proven to be the most useful and widely employed.

#### Tributyltin hydride (New listing)

Bu, SnH effects the clean displacement by hydride of a variety of atoms bound to carbon. A few examples from the recent literature illustrate the wide scope and utility of this reaction:

$$R-NO_2 \xrightarrow{Bu_3SnH} RH$$
 (ref. 5)

R = alkyl, benzyl

Bu<sub>3</sub>SnH also enables the synthesis of olefins from vicinal dinitro compounds' and of dienes from allyl sulfonates.1

#### Tributyltin methoxide (New listing)

Cleavage of a C-P bond is the key to a new synthesis of unsymmetrical ketones from α-hydroxy phosphonates.\*

#### Tributyltin chloride

Vinylstannanes, valuable precursors to a variety of functionalities, are now easily accessible via the new reagent 1, which is prepared in high yield from Bu, SnCl:10

Tributyltin cyanide (New listing)

Bu, SnCN has recently been shown to be an excellent reagent for the cyanation of acyl chlorides:"

We are constantly adding to our organotin listings. Look to Aldrich for all of your organometallic reagent needs!

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- 4) Guibe, F.; M'Leux, Y.S. Tetrahedron Lett. 1981, 22, 3591
- 5) Ono, N.; Miyake, H.; Tamura, R.; Diaz, G.E. ibid. 1981, 22, 1705.
- 6) Barton, D.H.R.; Motherwell, R.S.H.; Motherwell, W.B. J. Chem. Soc., Perkin Trans. 1 1981, 2363
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- 11) Tanaka, M. Tetrahedron Lett. 1980, 21, 2959.

23,478-8	Tributyltin hydride	10g \$13.90; 50g \$49.00
		500g \$250.00
22,924-5	Tributyltin methoxide	25g \$25.00; 100g \$75.00
T5,020-2	Tributyltin chloride	100g \$10.60; 500g \$34.40
23,516-4	Tributyltin cyanide	10g \$14.30; 50g \$49.00
21,666-6	Tetrakis(triphenylphosphine)palladium(0)	
		1g \$13.50; 5g \$50.00
11,553-3	1,1'-Carbonyldiimidazol	le 5g \$9.80; 10g \$18.00
		25g \$33.80; 100g \$100.00
A9,640-1	2,2'-Azobis(2-methylpropionitrile) (AIBN)	
		100g \$6.50; 500g \$19.10
18.615-5	Lithium acetylide, ethylenediamine complex	

50g \$41.60; 100g \$60.30



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