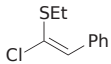
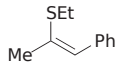
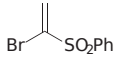
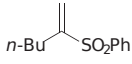
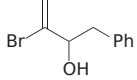
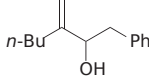
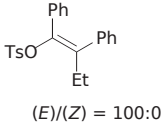
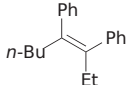
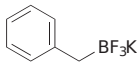
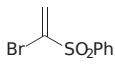
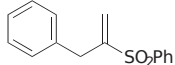
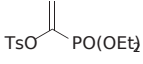
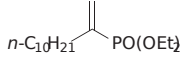


TABLE 2. CROSSCOUPLINGS OF ALKYLBORON REAGENTS WITH ALKENYL ELECTROPHILES

Alkylboron Reagent	Alkenyl Electrophile	Conditions	Product(s) and Yield(s) (%)	Refs.
<i>Please refer to the charts preceding the tables for ligand and catalyst structures.</i>				
C <sub>1</sub>				
Me-B(OH) <sub>2</sub> 1.3 eq		Pd(OAc) <sub>2</sub> (5 mol %), PPh <sub>3</sub> (10 mol %), C <sub>6</sub> H <sub>5</sub> CO <sub>3</sub> (1.5 eq), THF, 40°, 5 h	 (66)	187
C <sub>4</sub>				
<i>n</i> -Bu-BF <sub>3</sub> K 1.5 eq		Pd(OAc) <sub>2</sub> (5 mol %), SPhos (10 mol %), C <sub>6</sub> H <sub>5</sub> CO <sub>3</sub> (2 eq), toluene/water (4:1), 50°, 15 h	 (71)	188
<i>n</i> -Bu-B(OH) <sub>2</sub> 1.5 eq		Pd(OAc) <sub>2</sub> (5 mol %), LB-Phos•HBF <sub>4</sub> (5 mol %), K <sub>2</sub> CO <sub>3</sub> (4.5 eq), toluene, 110°, 5.7 h	 (80)	189
1.1 eq	 ( <i>E</i> )/( <i>Z</i> ) = 100:0	Pd(OAc) <sub>2</sub> (1 mol %), RuPhos (2 mol %), K <sub>3</sub> PO <sub>4</sub> •H <sub>2</sub> O (1.5 eq), toluene/water (3:1), 70°, 24 h	 (98) ( <i>E</i> )/( <i>Z</i> ) = 99:1	122
C <sub>7</sub>				
 1.5 eq		Pd(OAc) <sub>2</sub> (5 mol %), SPhos (10 mol %), C <sub>6</sub> H <sub>5</sub> CO <sub>3</sub> (2 eq), toluene/water (4:1), 50°, 15 h	 (60)	188
C <sub>10</sub>				
<i>n</i> -C <sub>10</sub> H <sub>21</sub> -BF <sub>3</sub> K 2 eq		Pd(OAc) <sub>2</sub> (7 mol %), SPhos (15 mol %), C <sub>6</sub> H <sub>5</sub> CO <sub>3</sub> (2.5 eq), toluene/water (4:1), 60°, 20 h	 (99)	190