

Step 1

8/8/2026, 11:31:49 AM

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limiting

Bromoiodo • 0.0002 mol

Compound	MW	Equiv	Moles	g	mg	mL	M	N	w% in	w% calc
Bromoiodo limiting	412.0000	1.00	0.0002	0.1000	100.0	0.00	—	—	—	17.45 %
boronate reagent	300.0000	2.00	0.0005	0.1456	145.6	0.00	—	—	—	25.42 %
K2CO3 reagent	138.0000	3.00	0.0007	0.1005	100.5	0.00	—	—	—	17.54 %
PdCl2DPPF reagent	816.0000	0.10	0.0000	0.0198	19.8	0.00	—	—	—	3.46 %
Et3N reagent	101.0000	3.00	0.0007	0.0735	73.5	147.09	—	—	—	12.83 %
LAH reagent	101.0000	3.00	0.0007	0.0735	73.5	2.18	—	1.000	—	12.83 %
NaH reagent	101.0000	3.00	0.0006	0.0600	60.0	0.00	—	—	60.00	10.47 %

Theoretical yield of suzuki: 0.0002 mol → 0.1000 g

Percent yield: 50.00 % (actual 0.0500 g / th. 0.1000 g)

actual mass (g) mass yield % —