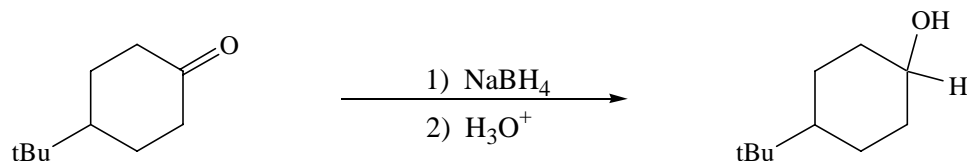


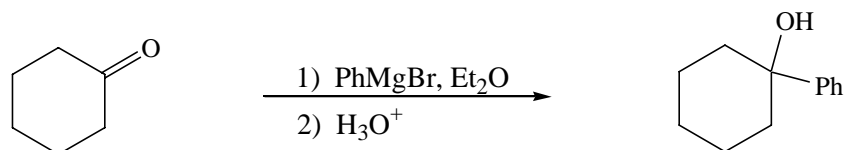
Reaction Tables Practice Problems Key

1)



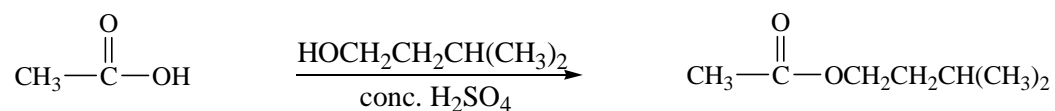
Compound	MW	mass	mmol	vol	d	equiv
4-tert-butylcyclohexanone	154.3	0.80 g	5.2	---	---	1.0
NaBH ₄	37.8	0.60 g	15.8	---	---	3.0 4
95% ethanol (solvent)	---	---	---	6.0 mL	---	

2)



Compound	MW	mass	mmol	vol	d (g/mL)	equiv
cyclohexanone	98.1	4.1 g	41.8	4.3 3 mL	0.947	1.0
PhMgBr (1.0 M in ether)	181.3	9.1 g	50.0	50.0 mL	---	1.2
ether (solvent)	---	---	---	30	---	

3)



Compound	MW	mass	mmol	vol	d (g/mL)	equiv
isopentyl alcohol	88.1	1.2 9 g	14.7	1.6 mL	0.809	1.0
acetic acid (glacial)	60.1	2.3 1 g	38.4	2.2 mL	1.0492	2.6
H ₂ SO ₄ (catalyst)	---	---	---	1 drop	---	catalyst