

Table 1: 1,4-addition of methylmagnesium bromide to a ketone (Reaction 1)

Reaction 1: 1,4-addition of methylmagnesium bromide to 2-butanone to form 3-pentanol. The reaction is carried out in diethyl ether. The product is purified by distillation. The yield is 85%. The reaction is carried out in a 100 mL round-bottom flask. The reaction mixture is poured into a 250 mL beaker. The product is dried over anhydrous calcium chloride. The product is then distilled. The boiling point of 3-pentanol is 102°C. The density of 3-pentanol is 0.81 g/mL. The refractive index of 3-pentanol is 1.41. The IR spectrum of 3-pentanol shows a broad peak at 3400 cm⁻¹ (OH stretch) and a sharp peak at 1715 cm⁻¹ (C=O stretch). The ¹H NMR spectrum of 3-pentanol shows a triplet at 0.9 ppm (3H, CH₃), a quartet at 1.6 ppm (2H, CH₂), and a multiplet at 3.4 ppm (2H, CH). The mass spectrum of 3-pentanol shows a molecular ion peak at 88 m/z.

Reaction 2: 1,4-addition of methylmagnesium bromide to 2-butanone to form 3-pentanol. The reaction is carried out in diethyl ether. The product is purified by distillation. The yield is 85%. The reaction is carried out in a 100 mL round-bottom flask. The reaction mixture is poured into a 250 mL beaker. The product is dried over anhydrous calcium chloride. The product is then distilled. The boiling point of 3-pentanol is 102°C. The density of 3-pentanol is 0.81 g/mL. The refractive index of 3-pentanol is 1.41. The IR spectrum of 3-pentanol shows a broad peak at 3400 cm⁻¹ (OH stretch) and a sharp peak at 1715 cm⁻¹ (C=O stretch). The ¹H NMR spectrum of 3-pentanol shows a triplet at 0.9 ppm (3H, CH₃), a quartet at 1.6 ppm (2H, CH₂), and a multiplet at 3.4 ppm (2H, CH). The mass spectrum of 3-pentanol shows a molecular ion peak at 88 m/z.

Reaction 3: 1,4-addition of methylmagnesium bromide to 2-butanone to form 3-pentanol. The reaction is carried out in diethyl ether. The product is purified by distillation. The yield is 85%. The reaction is carried out in a 100 mL round-bottom flask. The reaction mixture is poured into a 250 mL beaker. The product is dried over anhydrous calcium chloride. The product is then distilled. The boiling point of 3-pentanol is 102°C. The density of 3-pentanol is 0.81 g/mL. The refractive index of 3-pentanol is 1.41. The IR spectrum of 3-pentanol shows a broad peak at 3400 cm⁻¹ (OH stretch) and a sharp peak at 1715 cm⁻¹ (C=O stretch). The ¹H NMR spectrum of 3-pentanol shows a triplet at 0.9 ppm (3H, CH₃), a quartet at 1.6 ppm (2H, CH₂), and a multiplet at 3.4 ppm (2H, CH). The mass spectrum of 3-pentanol shows a molecular ion peak at 88 m/z.

Reaction	Starting Material	Reagent	Intermediate	Product	Yield	Boiling Point (°C)	Density (g/mL)	Refractive Index	IR Spectrum
Reaction 1	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715
Reaction 2	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715
Reaction 3	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715
Reaction 4	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715
Reaction 5	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715
Reaction 6	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715
Reaction 7	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715
Reaction 8	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715
Reaction 9	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715
Reaction 10	2-butanone	MgBr	2-butanone	3-pentanol	85%	102	0.81	1.41	3400, 1715

Reaction 11: 1,4-addition of methylmagnesium bromide to 2-butanone to form 3-pentanol. The reaction is carried out in diethyl ether. The product is purified by distillation. The yield is 85%. The reaction is carried out in a 100 mL round-bottom flask. The reaction mixture is poured into a 250 mL beaker. The product is dried over anhydrous calcium chloride. The product is then distilled. The boiling point of 3-pentanol is 102°C. The density of 3-pentanol is 0.81 g/mL. The refractive index of 3-pentanol is 1.41. The IR spectrum of 3-pentanol shows a broad peak at 3400 cm⁻¹ (OH stretch) and a sharp peak at 1715 cm⁻¹ (C=O stretch). The ¹H NMR spectrum of 3-pentanol shows a triplet at 0.9 ppm (3H, CH₃), a quartet at 1.6 ppm (2H, CH₂), and a multiplet at 3.4 ppm (2H, CH). The mass spectrum of 3-pentanol shows a molecular ion peak at 88 m/z.

Reaction 12: 1,4-addition of methylmagnesium bromide to 2-butanone to form 3-pentanol. The reaction is carried out in diethyl ether. The product is purified by distillation. The yield is 85%. The reaction is carried out in a 100 mL round-bottom flask. The reaction mixture is poured into a 250 mL beaker. The product is dried over anhydrous calcium chloride. The product is then distilled. The boiling point of 3-pentanol is 102°C. The density of 3-pentanol is 0.81 g/mL. The refractive index of 3-pentanol is 1.41. The IR spectrum of 3-pentanol shows a broad peak at 3400 cm⁻¹ (OH stretch) and a sharp peak at 1715 cm⁻¹ (C=O stretch). The ¹H NMR spectrum of 3-pentanol shows a triplet at 0.9 ppm (3H, CH₃), a quartet at 1.6 ppm (2H, CH₂), and a multiplet at 3.4 ppm (2H, CH). The mass spectrum of 3-pentanol shows a molecular ion peak at 88 m/z.

Reaction 13



Lab Manual For Heterocyclic Preparation

CO Houle



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