1. Single Step

$$\bigcap_{\mathsf{NH}}\mathsf{CH}_3\longrightarrow \bigcap_{\mathsf{N}}\mathsf{D}$$

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2. Single Step

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3. Single Step

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5. Single Step

77%

15%

96%

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6. Single Step

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7. 2 Steps

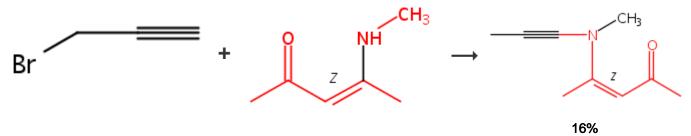
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8. Single Step

$$NH_2$$
 OH +

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9. Single Step



Reaction Protocol

Procedure

- 1. Add propargyl bromide (2 mmol) to a stirred solution of silver nitrate (2 mmol) in anhyd CH_3CN (10 mL) at ambient temperature.
- 2. Add the appropriate enaminone (1 mmol) immediately thereafter and stir the mixture overnight.

View more...

Available Experimental Data

¹H NMR, ¹³C NMR, IR, HRMS, Mass Spec, MP, R_f, State

10. Single Step

94%

55%

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11. Single Step

67%

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13. Single Step

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14. Single Step

$$CH_3$$
 CH_3 CH_3

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15. Single Step

$$CH_3$$
 Z
 NH
 CH_3

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17. Single Step

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19. Single Step

sodium complex 69%

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20. Single Step

sodium complex

86%

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21. Single Step

72%

sodium complex

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74%

23. Single Step

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24. Single Step

70%

25. Single Step

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26. Single Step

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28. Single Step

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29. Single Step

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30. Single Step

$$\operatorname{Br} \longrightarrow \bigcap_{Z} \bigcap_$$

Reaction Protocol

Procedure

- 1. Add propargyl bromide ($2\ mmol$) to a stirred solution of silver nitrate ($2\ mmol$) in anhyd CH $_3$ CN ($10\ mL$) at ambient temperature.
- 2. Add the appropriate enaminone (1 mmol) immediately thereafter and stir the mixture overnight.

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Available Experimental Data ¹H NMR, ¹³C NMR, IR, HRMS, Mass Spec, R_f, State

View with MethodsNow

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31. Single Step

Reaction Protocol

Procedure

- 1. Add hexyn-2-one reactant, NaH (102 mg, 2.12 mmol) to a stirred solution of (Z) -4- (methylamino) -3-penten-2-one (200 mg, 1.77 mmol) and propargyl bromide (0.24 ml, 0.26 g, 2.15 mmol) in anhyd THF (20 mL) at 0°C .
- 2. Allow the reaction mixture to warm to ambient temperature and stir overnight.

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Available Experimental Data ¹H NMR, ¹³C NMR, IR, R_f, State

View with MethodsNow

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32. Single Step

Reaction Protocol

Procedure

- 1. Add hexyn-2-one reactant, t-BuLi (3.03 mL, 5.16 nmol, 1.7 M) to a stirred solution of (Z) -4- (methylamino) -3-penten-2-one (530 mg, 4.69 mmol) in anhyd THF (25 mL) at -78 °C and stir at that temperature for 30 min.
- 2. Add propargyl bromide (0.78 mL, 0.83 g, 7.03 mmol) thereafter and stir the mixture at -78 °C for a further 3 h, allow to warm to ambient temperature and stir overnight.

View more...

Available Experimental Data ¹H NMR, ¹³C NMR, IR, R_f

View with MethodsNow

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33. Single Step

Reaction Protocol

Procedure

- 1. Add 5-hexyn-2-one reactant, t-BuLi (3.03 mL, 5.16 nmol, 1.7 M) to a stirred solution of (Z) -4- (methylamino) -3-penten-2-one (530 mg, 4.69 mmol) in anhyd THF (25 mL) at -78 °C and stir at that temperature for 30 min.
- 2. Add propargyl bromide (0.78 mL, 0.83 g, 7.03 mmol) thereafter and stir the mixture at -78 °C for a further 3 h, allow to warm to ambient temperature and stir overnight.

View more...

Available Experimental Data ¹H NMR, ¹³C NMR, IR, R_f

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99%

99%

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35. Single Step

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36. Single Step

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37. Single Step

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39. Single Step

$$+ CH_3 \longrightarrow CH_3 \longrightarrow CH_3$$

78%

87%

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40. Single Step

75%

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61%

50%

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42. Single Step

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43. Single Step

$$+ CH_3 \longrightarrow NH \longrightarrow CH_3 \longrightarrow CH_3 \longrightarrow CH_3$$

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76%

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45. Single Step

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46. Single Step

Reaction Protocol

Procedure

- 1. Charge a 250-ml flask with benzoylacetone (62 mmol) and 33% ethanolic solution of methylamine (120 ml).
- 2. Reflux the mixture for 4 hours.

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Available Experimental Data 1H NMR, 13C NMR, MP

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47. Single Step

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48. Single Step

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49. Single Step

22%

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25%

Reaction Protocol

Procedure

- 1. Stir a solution of the ketone (1 mmol) and the amine (1.2 mmol) in benzene (30 ml) for 10 h at room temperature or at reflux temperature or heat at 100 °C in a sealed tube.
- 2. Pour the reaction mixture into dilute hydrochloric acid (30 ml).

View more...

Available Experimental Data ¹H NMR, IR, MP

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51. 2 Steps

[Step 2.1]

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53. 2 Steps

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54. Single Step

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55. 2 Steps

[Step 2.1]

92%

Procedure

1. Add KO*t*-Bu (70 mg, 0.62 mmol) to a stirred solution of the (Z)-N-(3-oxo-1,3-diphenylprop-1-enyl)propionamide (143 mg) in THF (5 mL) at 0 °C.

2. Stir the mixture overnight while being allowed to warm up to room temperature.

View more...

Available Experimental Data

¹H NMR, ¹³C NMR, IR, Elemental Analysis, HRMS, Mass Spec, MP, State

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56. Single Step

$$F \longrightarrow CH_3 \longrightarrow F \longrightarrow Z \longrightarrow NH_2 \longrightarrow F \longrightarrow Z \longrightarrow NH_2 \longrightarrow F \longrightarrow Z \longrightarrow NH_2 \longrightarrow$$

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57. Single Step

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$$F = \begin{array}{c} F \\ \hline \\ F \\ \hline \\ CH_3 \end{array} + \begin{array}{c} F \\ \hline \\ CH_3 \end{array} + \begin{array}{c} CH_3 \\ \hline \\ CH_3 \end{array} - \begin{array}{c} O \\ \hline \\ O \\ \hline \\ CH_3 \end{array}$$

76%

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59. Single Step

CH₃ — NH₂ +
$$F$$
 CH_3 \rightarrow F CH_3

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60. Single Step

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62. Single Step

CH₃ — NH₂ +
$$\xrightarrow{NH}$$
 \xrightarrow{z} \xrightarrow{F} \xrightarrow{F} \xrightarrow{V} \xrightarrow{V}

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63. Single Step

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64. 2 Steps

+
$$CH_3$$
 — NH_2 \rightarrow F

[Step 2.1]

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65. 2 Steps

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66. Single Step

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90%

Reaction Protocol

Procedure

1. Add 1.6 M n-butyllithium hexane solution (6.25 mL, 10.0 mmol) dropwise to a dried toluene solution (50 mL) of (Z)-4-(phenylamino)pent-3-en-2-one (1.75 g, 10.0 mmol) at -78 °C.

2. Stir the reaction mixture.

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68. Single Step

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86%

87%

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70. Single Step

Reaction Protocol

Procedure

- 1. Stir a solution of the ketone (1 mmol) and the amine (1.2 mmol) in benzene (30 ml) for 1 h at room temperature.
- 2. Pour into dilute hydrochloric acid (30 ml).

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Available Experimental Data

¹H NMR, IR, Elemental Analysis, MP

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71. Single Step

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73. Single Step

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74. Single Step

$$+ CH_3 \longrightarrow CH_3 \longrightarrow CH_3$$

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47%

$$+ CH_3 \longrightarrow CH_3 \longrightarrow CH_3$$

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76. Single Step

$$CH_3$$
 CH_3
 CH_3

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77. Single Step

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$$CH_3$$
 CH_3
 CH_3

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79. Single Step

$$CH_3$$

$$CH_3$$

$$CH_3$$

$$CH_3$$

60%

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80. Single Step

Reaction Protocol

Procedure

1. Stir a solution of the ketone (1 mmol) and the amine (1.2 mmol) in benzene (30 ml) for 15 h at room temperature or at reflux temperature or heat at 100 °C in a sealed tube.

65%

2. Pour the reaction mixture into dilute hydrochloric acid (30 ml).

View more...

Available Experimental Data ¹H NMR, IR, Elemental Analysis, MP

55%

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81. Single Step

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82. Single Step

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83. Single Step

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15%

84. Single Step

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85. Single Step

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86. Single Step

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87. 2 Steps

88. 2 Steps

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98%

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90. Single Step

sodium complex

65%

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91. Single Step

Reaction Protocol

Procedure

- 1. Reflux a mixture of the β -diketone (0.025 mol) and a soln of MeNH₂ (3.10 g, 0.1 mol) in EtOH (12.5 mL) for 5 h or stir at 25 °C for 2 h.
- 2. Evaporate the volatile components in vacuo.

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Available Experimental Data

¹H NMR, MP

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Reaction Protocol

Procedure

- 1. Prepare a solution (3.8 mL) of 40% Me₂NH in water (30 mM) and add to a solution of 20 mM of alkoxyenone in 20 ml of acetonitrile with stirring at 0 °C.
- 2. Stir the mixture for 5 h at 20 °C.

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Available Experimental Data ¹H NMR, ¹³C NMR, ¹⁹F NMR, Elemental Analysis, MP, State

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93. 2 Steps

[Step 2.1]

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94. 2 Steps

Reaction Protocol

Procedure

1. Carry out the reaction under an inert atmosphere.

2. Charge a 500-mL four-necked round-bottomed flask with t-PentOK (26.51 g, 0.21 mol) and freshly distilled THF (150 mL).

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Available Experimental Data ¹H NMR, ¹³C NMR, BP, MP

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95. 3 Steps

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96. Single Step

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97. Single Step

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98. Single Step

alk. earth complex

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100. Single Step

Reaction Protocol

Procedure

- 1. Add TFA (3 mL) to the reactant (3 mmol) and stir the mixture vigorously under room temperature for 1 h.
- 2. Add water (200 mL) and extract the mixture with CH_2CI_2 (3 × 20 mL) .

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Available Experimental Data ¹H NMR, MP

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