

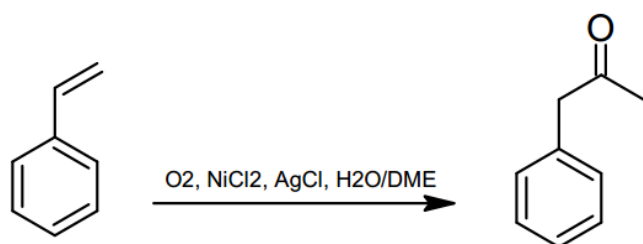
# DBore Oxidation

Dronadula Borraiah

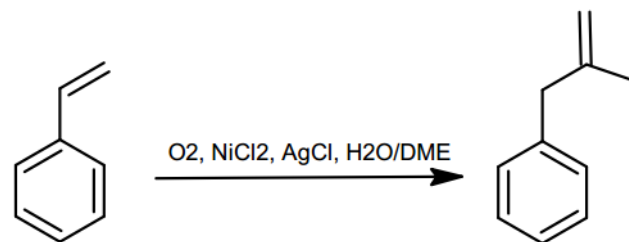
**Abstract:** Preparation of ketone's by Nickel - Catalyzed oxidation of olefin's in the presence of oxygen, nickel (II) chloride, silver chloride, water/dimethyl ether

**Keywords:** Ketone's, O<sub>2</sub>, NiCl<sub>2</sub>, AgCl, H<sub>2</sub>O/DME

Reaction:

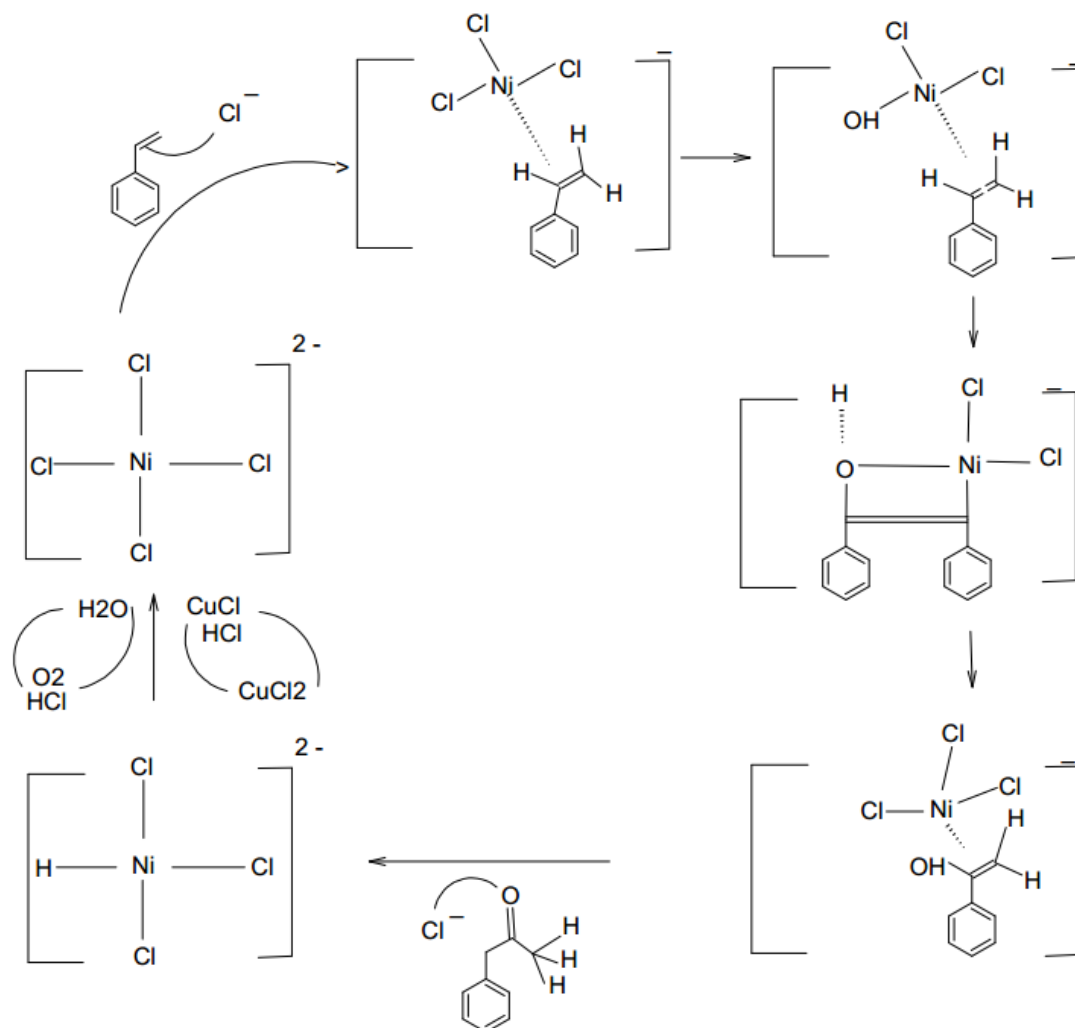


Reaction:



Theory: Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's

Mechanism:



Volume 8 Issue 5, May 2019

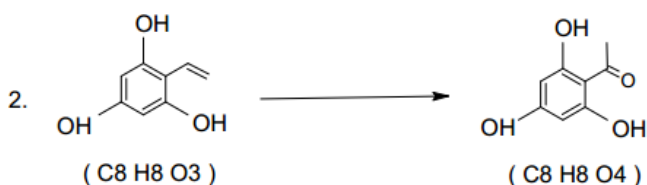
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Applications:



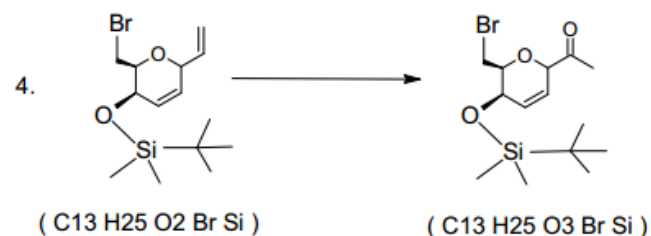
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 20 °C ; PH = 1.3



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 22 °C ; P = 750.61 Torr ; 5 h



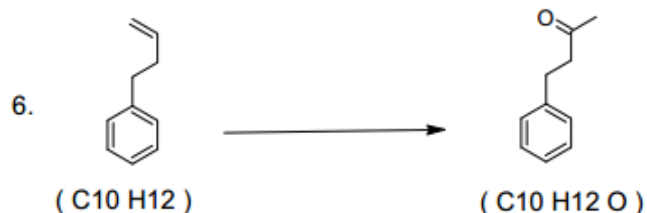
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 22 °C ; P = 750.61 Torr ; 4 h



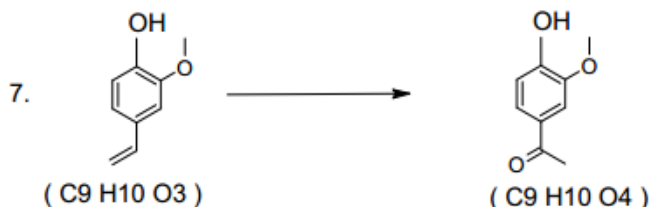
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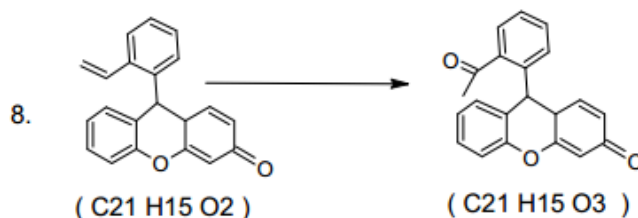
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 80 °C ; P = 4450 Torr ; 22 h



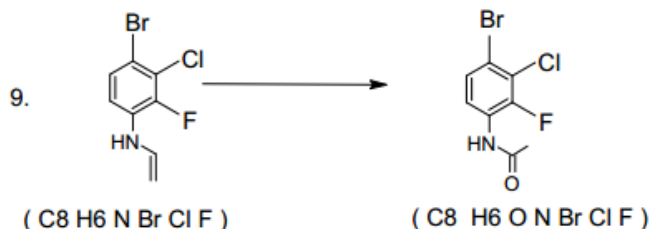
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 80 °C ; P = 4560 Torr ; 22 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 35 °C ; P = 4560 Torr ; 24 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 20 °C ; P = 4560 Torr ; 4 h



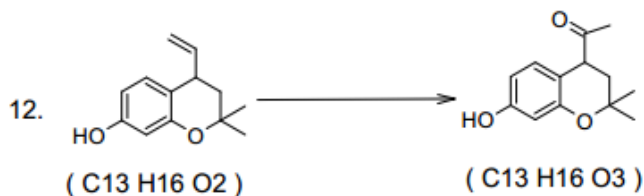
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 20 °C ; PH = 1.4



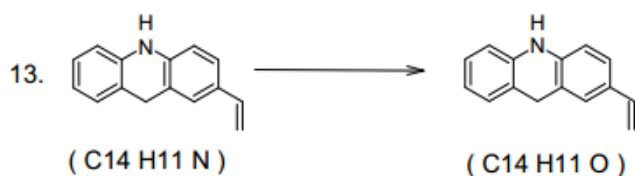
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 35 °C ; PH = 1.6 Torr ; 24 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at T = 20 °C ; PH = 1.3



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ambient temp ; 24 h T = 20 °C ; PH = 1.3 Torr ; 24 h



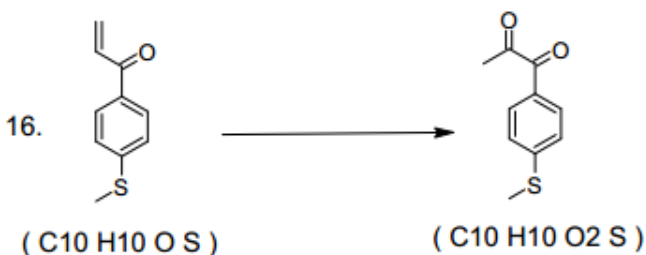
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; 24 h T = 20 °C ; PH = 1.4



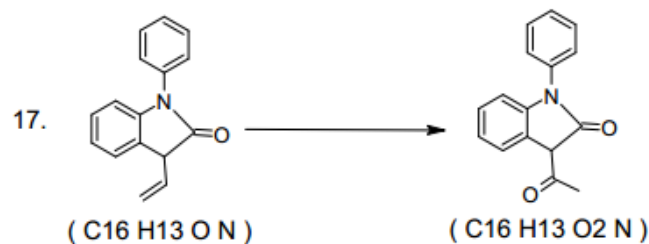
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; 2 h T = 80 °C ; P = 4560



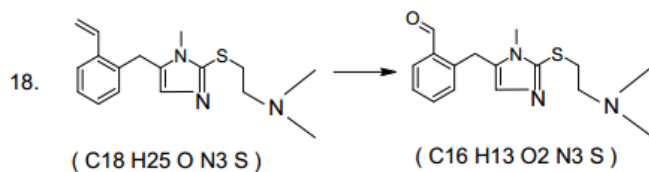
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; 24 h T = 80 °C ; PH = 1.3



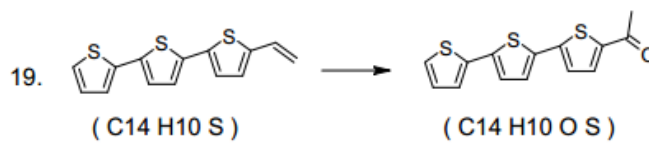
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; 22 h T = 80 °C ; PH = 1.4



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; 22 h T = 80 °C ; PH = 1.3



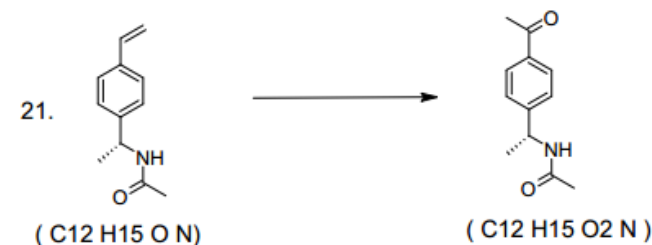
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; 5 h T = 22 °C ; P = 760.051



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 85 °C ; P = 4560 Torr ; 40 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 80 °C ; P = 760 Torr ; 3 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 80 °C ; P = 4560 Torr ; 24 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 20°C ; P = 4560 Torr ; 4 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 20°C ; P = 4560 Torr ; 24 h



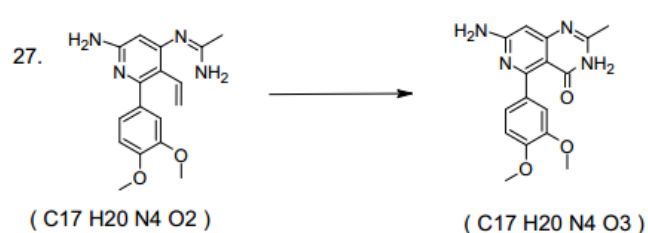
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 80°C ; P = 4560 Torr ; 4 h



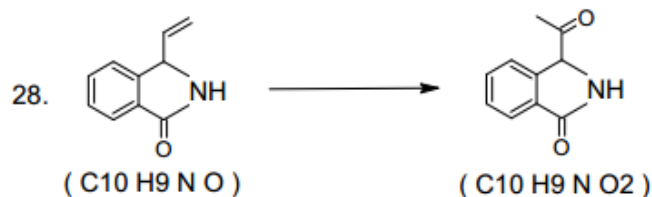
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 30°C ; P = 4560 Torr ; 24 h



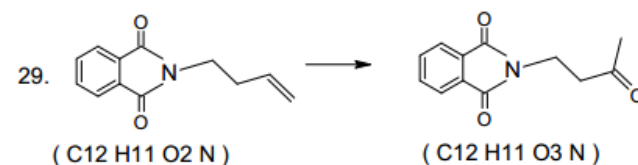
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 25 °C ; P = 760 Torr ; 12 h



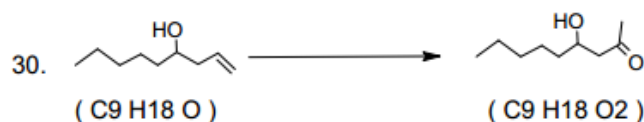
Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 80 °C ; P = 760 Torr ; 24 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 30 °C ; P = 760 Torr ; 24 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 25 °C ; P = 760 Torr ; 12 h



Preparation of ketone's by Nickel - Catalyzed oxidation of Olefin's by using Oxygen; Nickel (II) chloride ; Silver chloride ; H<sub>2</sub>O / DME at ; T = 150 °C ; P = 2250 Torr ; 18 h

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