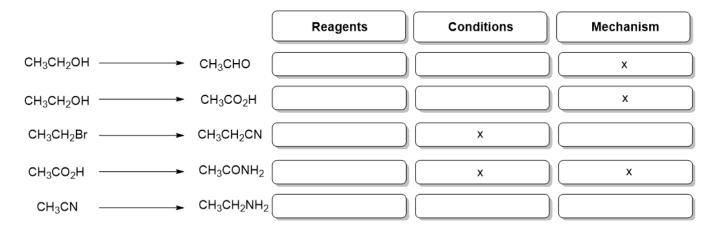
Organic synthesis

Organic transformations 1

Complete the diagram showing the reagents, conditions and mechanisms that accompany the following transformations.



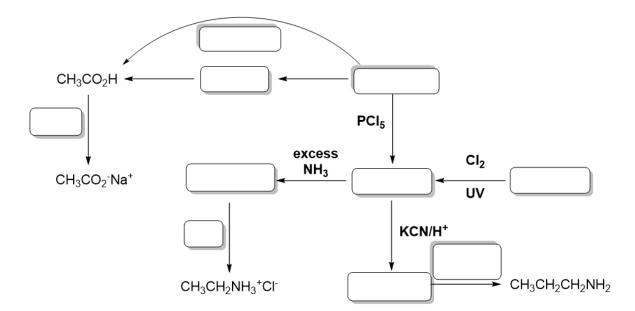
Organic transformations 2

Complete the diagram showing the reagents, conditions and mechanisms that accompany the following transformations.

	Reagents	Conditions	Mechanism
CH ₃ CONH ₂ → CH ₃ CH ₂ NH ₂ (Х	
CH ₃ CH ₃			
CH ₃ CH ₂ Br → CH ₃ CH ₂ NH ₂			
$H_2C=CH_2$ \longrightarrow CH_3CH_2Br (Х	

Organic transformations 3

Complete the diagram below to show the reagents and species formed.

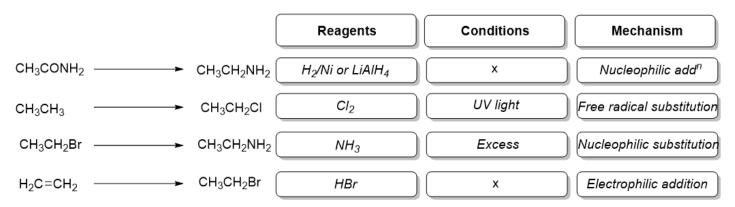


Organic synthesis – Answers

Organic transformations 1

		Reagents	Conditions	Mechanism
CH ₃ CH ₂ OH →	сн₃сно (K ₂ Cr ₂ O ₇ /H ⁺	Distillation	X
CH ₃ CH ₂ OH →	CH ₃ CO ₂ H (K ₂ Cr ₂ O ₇ /H ⁺	Reflux	х
CH ₃ CH ₂ Br →	CH3CH2CN (KCN	x	Nucleophilic sub ⁿ
CH₃CO₂H →	CH ₃ CONH ₂ (NH ₃	x	x
CH₃CN —	CH ₃ CH ₂ NH ₂	LiAlH ₄	Dry ether solvent	Nucleophilic add ⁿ

Organic transformations 2



Organic transformations 3

