Answer on Question #77692, Chemistry / Organic Chemistry

Question:

Starting with succinic anhydride, give the reagent and/or conditions necessary to produce each of the following compounds:

- a) Na⁺ OOCCH₂CH₂COO Na⁺
- b) NH₄⁺ OOCCH₂CH₂CONH₂
- c) HOOCCH₂CH₂CONH₂
- d) HOOCCH₂CH₂COOC₂H₅

Answer:

a)

NaOH(aq), excess, heating

b)

NH₄OH(aq), excess, heating

c)

- 1) NH₄OH(aq), excess, heating.
- 2) HCl(aq), ambient temperature.

d)

- 1) C_2H_5ONa , heating.
- 2) HCl(aq), ambient temperature.

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