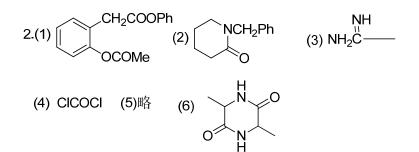
第十一章 羧酸衍生物

- 1. (1)2-甲氧基苯甲酸苯酯 (2) 氯代甲酸苄酯 (3) N,N-二甲基环戊基甲酰胺
 - (4) 2-氯甲酰基苯甲酸(5)(2R,3S)-2,3-二羟基-1,4-丁二酸二乙酯
 - (6) 5-乙酰基-1-萘甲酰胺 (7) 2-甲基-1,4-丁二酸酐 (8) 3-戊酮酸辛酯
 - (9)(3R,4R)-4-羟基-2-氯己酸乙酯 (10)3-(N-甲基氨甲酰基)丙酸乙酯



- 3. (1) CH_3COOH (2) $OCOCH_3$ (3) $CH_3COOCH(CH_3)_2$
 - (4) \backslash NCOCH₃ (5) \backslash NHCOH₃ (6) CH₃ \backslash COCH₃
 - (7) CH₃CHO (8) CH₃COOCOCH₂CH₃

O
(4)
$$CH_3COCH_2CH_2CH_2CH_3$$
 (5) H_2NH_2C (8)
(6) (7) (8)
OH O CH₂OH
(9) (10)
Me NH₂ COO⁻ NH_4^+ COOH

5.(1) (E)>(D)>(B)>(A)>(C) (2) (B)>(D)>(C)>(A) (3)(a)>(b)>(c)>(d) (4)(B)>(C)>(A)>(D) 6. (1)

A. O
$$O$$
 B. HOOCCH₂CHCOOEt CH_3

C.
$$C_2H_5OOCCH_2CHCOOH$$
 D. $C_2H_5OOCCH_2CHCOOC_2H_5$ CH_3

(2) A CH₃CH₂COOH B HCOOC₂H₅ C CH₃COOCH₃

(1) OH
$$SOCl_2$$
 Cl $NaCN$ CN H_2/Ni CH_2NH_2

(2)
$$CH_{3}CH_{2}CCH_{2}COH \xrightarrow{CH_{3}CH_{2}OH} CH_{3}CH_{2}CH_{2}COC_{2}H_{5} \xrightarrow{C_{2}H_{5}MgBr} \xrightarrow{H_{3}O^{+}} CH_{3}CH_{2}CH_{2}CCC_{2}H_{5} \xrightarrow{C_{2}H_{5}MgBr} CH_{3}O^{+}$$

8、

PhCOOCPh₃ PhCOO⁻ +
$$^+$$
CPh₃
 $^+$ CPh₃ + EtOH \longrightarrow Ph₃COEt Et

PhCOO⁻ + H⁺ \longrightarrow PhCOOH