## 第十四章 杂环化合物

## 1、命名

- (1) α-呋喃甲酸
- (2) 4-溴-2-噻吩甲酸甲酯
- (3)1-甲基-4-硝基吡咯

- (4) 3-甲基-2-氯吡啶
- (5) 3-吲哚乙酸
- (6) 2-氨基-5-甲氧基喹啉
- (7) 咪唑并[2,1-b] 噻唑 (8) 吡唑并[4,5-d]噁唑
- (9) 8-甲基-2-羟基-6-溴嘌呤

## 2、略

3、

(4) 
$$NO_2$$
 (5)  $NO_2$  (6)  $NO_2$  N=NPh

(7) 
$$\begin{array}{c|c} \text{COOH} & \text{(8)} & \text{CI} & \text{NH}_2 \\ \text{N} & \text{COOH} & \text{(9)} & \text{N} & \text{Ph} \end{array}$$

(10) 
$$(11)$$
  $(12)$   $(12)$   $(12)$   $(12)$   $(13)$ 

4, (1) abfecd; (2) cbad

## 5、(1)

A. 
$$\mathbb{C}_{N}$$
 B.  $\mathbb{C}_{N}$  CH=CHC<sub>6</sub>H<sub>5</sub> C.  $\mathbb{C}_{N}$  CHO

$$\begin{array}{c} \text{CH}_3\text{O} \\ \text{CH}_3\text{O} \\ \end{array} \begin{array}{c} \text{N} \\ \text{OCH}_3 \end{array}$$

6,

(1) 
$$2 \text{ CH}_3\text{CHO} \xrightarrow{\text{NaOH}} \stackrel{\text{O}}{\longrightarrow} \stackrel{\text{NO}_2}{\longrightarrow} \stackrel{\text{NO}_2}{\longrightarrow} \stackrel{\text{NH}_2}{\longrightarrow} \stackrel{\text{NH}_2}{\longrightarrow} \stackrel{\text{NH}_2}{\longrightarrow} \stackrel{\text{NO}_2}{\longrightarrow} \stackrel{\text{NO}_2}{\longrightarrow}$$

(2) 
$$CHO$$
  $CH3CHO$   $OH$   $CH=CHCHO$   $CH=CHCOOH$   $CH=CHCOOH$   $CH=CHCOOH$