

29.16 不飽和非環式モノカルボン酸及び環式モノカルボン酸並びにこれらの酸無水物、酸ハロゲン化物、酸過酸化物及び過酸並びにこれらのハロゲン化誘導体、スルホン化誘導体、ニトロ化誘導体及びニトロソ化誘導体

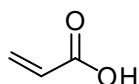
(Unsaturated acyclic monocarboxylic acids, cyclic mono-carboxylic acids, their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives.)

(A) 不飽和非環式モノカルボン酸並びにその塩及びエステルその他の誘導体

(Unsaturated acyclic monocarboxylic acids and their salts, esters and other derivatives)

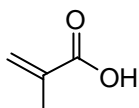
(1) アクリル酸

(Acrylic acid)



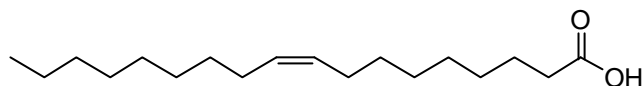
(2) メタクリル酸

(Methacrylic acid)



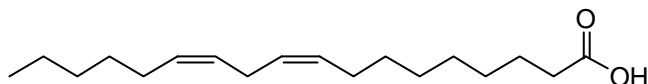
(3) オレイン酸

(Oleic acid)



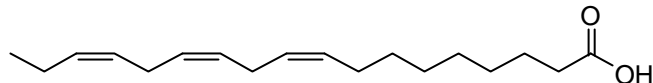
(4) リノール酸

(Linoleic acid)



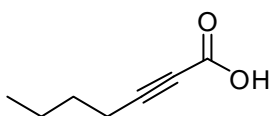
(5) リノレン酸

(Linolenic acid)



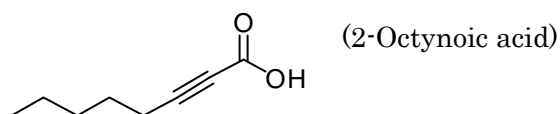
(6) ヘプチン酸

(Heptynoic acid)



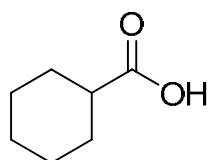
(2-Heptynoic acid)

- ・ オクチン酸  
(Octynoic acid)

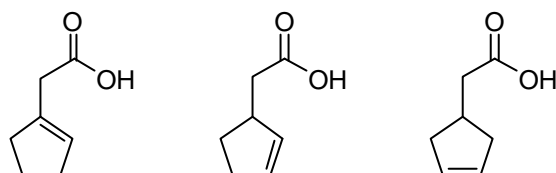


- (B) 飽和脂環式モノカルボン酸、不飽和脂環式モノカルボン酸及びシクロテルペンモノカルボン酸並びにこれらの塩及びエステルその他の誘導体  
(Cyclanic, cyclenic or cycloterpenic monocarboxylic acids and their salts, esters and other derivatives)

- (1) シクロヘキサンカルボン酸  
(Cyclohexanecarboxylic acid)

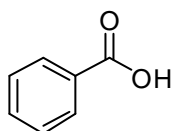


- (2) シクロペンテニル酢酸  
(Cyclopentenylacetic acids)



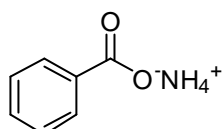
- (C) 芳香族飽和モノカルボン酸及びその塩、エステルその他の誘導体  
(Aromatic saturated monocarboxylic acids and their salts, esters and other derivatives)

- (1) 安息香酸  
(Benzoic acid)

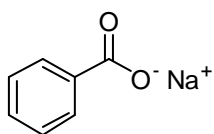


- 安息香酸の主な塩  
(Main salts of benzoic acid)

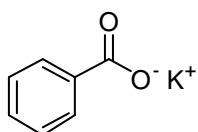
- ー 安息香酸アンモニウム  
(Ammonium benzoate)



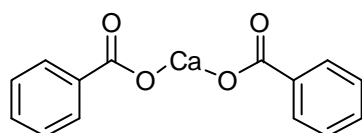
- 安息香酸ナトリウム  
(Sodium benzoate)



- 安息香酸カリウム  
(Potassium benzoate)

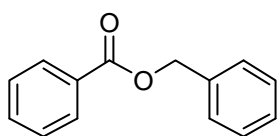


- 安息香酸カルシウム  
(Calcium benzoate)

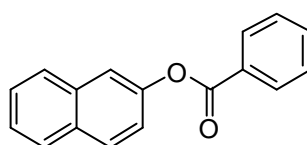
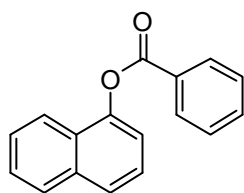


- 安息香酸の主なエステル  
(Esters of benzoic acid)

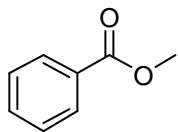
- 安息香酸ベンジル  
(Benzyl benzoate)



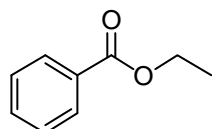
- 安息香酸ナフチル  
(Naphthyl benzoates)



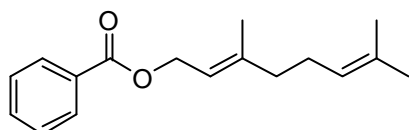
- 安息香酸メチル  
(Methyl benzoate)



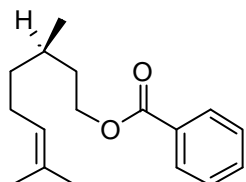
- 安息香酸エチル  
(Ethyl benzoate)



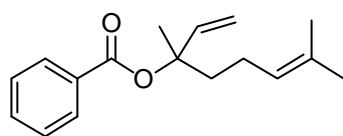
- 安息香酸ゲラニル  
(Geranyl benzoate)



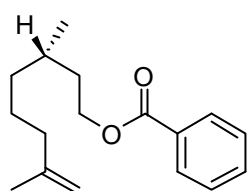
- 安息香酸シトロネリル  
(Citronellyl benzoate)



- 安息香酸リナリル  
(Linalyl benzoate)

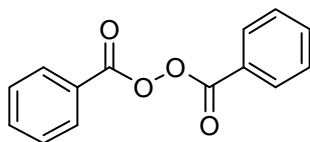


- 安息香酸ロジニル  
(Rhodinyl benzoate)

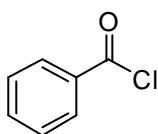


○ 安息香酸誘導体  
(The derivatives of benzoic acid)

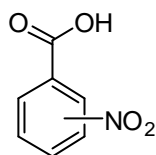
(a) 過酸化ベンゾイル  
(Benzoyl peroxide)



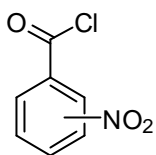
(b) 塩化ベンゾイル  
(Benzoyl chloride)



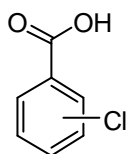
(c) ニトロ安息香酸 (オルト-, メタ-及びパラ-)  
(Nitrobenzoic acids ( $\sigma$ ,  $m$  and  $p$ ))



(d) 塩化ニトロベンゾイル (オルト-, メタ-及びパラ-)  
(Nitrobenzoyl chlorides ( $\sigma$ ,  $m$  and  $p$ ))

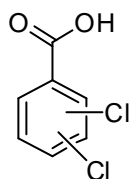


(e) クロロ安息香酸  
(Chlorobenzoic acids)



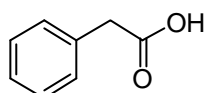
(f) ジクロロ安息香酸

(Dichlorobenzoic acids)



(2) フェニル酢酸

(Phenylacetic acid)

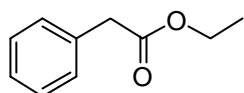


・ 主なエステル

(Main ester of phenylacetic acid)

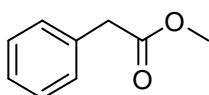
ー フェニル酢酸エチル

(Ethyl phenylacetate)



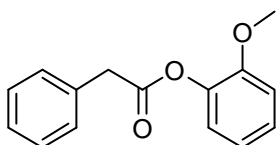
ー フェニル酢酸メチル

(Methyl phenylacetate)



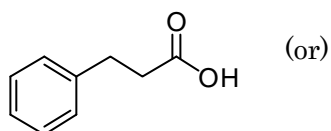
ー オルト-メトキシフェニルフェニルアセテート (フェニル酢酸グアヤコール)

(*o*-Methoxyphenyl phenylacetate (guaiacol phenylacetate))

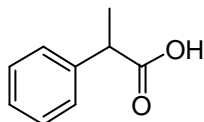


(3) フェニルプロピオン酸

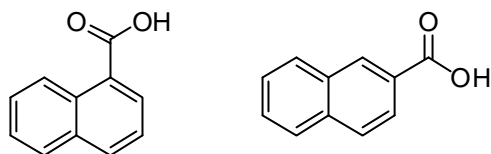
(Phenylpropionic acids)



(or)

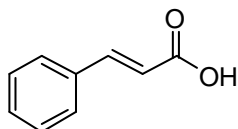


- ・ ナフトエ酸  
(Naphthoic acids)



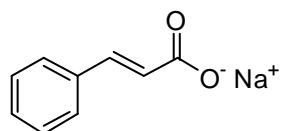
- (D) 芳香族不飽和モノカルボン酸及びその塩、エステルその他の誘導体  
(Aromatic unsaturated monocarboxylic acids and their salts, esters and other derivatives)

- － けい皮酸  
(Cinnamic acid)

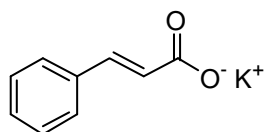


- － けい皮酸の主な塩  
(Main salts of cinnamic acid)

- ―― けい皮酸ナトリウム  
(Sodium cinnamate)

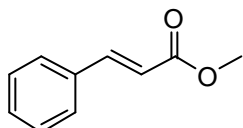


- ―― けい皮酸カリウム  
(Potassium cinnamate)

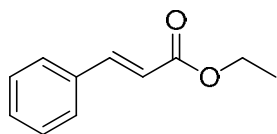


- － けい皮酸の主なエステル  
(Main esters of cinnamic acid)

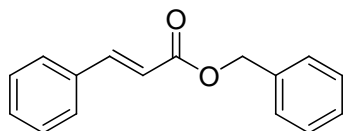
- ―― けい皮酸メチル  
(Methyl cinnamate)



- けい皮酸エチル  
(Ethyl cinnamate)



- けい皮酸ベンジル  
(Benzyl cinnamate)



- けい皮酸プロピル  
(Propyl cinnamates)

