

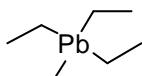
## 29. 31 その他のオルガノインオルガニック化合物 (Other organo-inorganic compounds.)

(1) テトラメチル鉛及びテトラエチル鉛  
(Tetramethyl lead and tetraethyl lead)

ー テトラメチル鉛  
(Tetramethyl lead)



ー テトラエチル鉛  
(Tetraethyl lead)

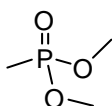


(2) トリブチルすず化合物  
(Tributyltin compounds)

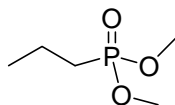
(3) 有機りん化合物  
(Organo-phosphorus compounds)

(I) 非ハロゲン化有機りん誘導体  
(Non-halogenated organo-phosphorous derivatives)

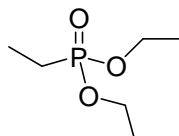
(a) メチルホスホン酸ジメチル  
(Dimethyl methylphosphonate)



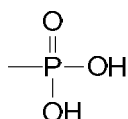
・ プロピルホスホン酸ジメチル  
(Dimethyl propylphosphonate)



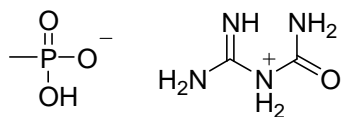
・ エチルホスホン酸ジエチル  
(Diethyl ethylphosphonate)



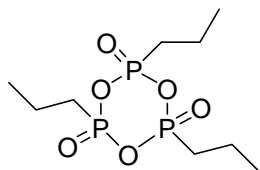
・ メチルホスホン酸  
(Methylphosphonic acid)



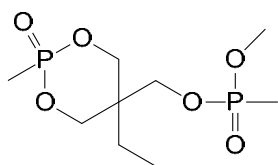
- (b) メチルホスホン酸と (アミノイミノメチル) 尿素との 1:1 の割合の塩  
(Salt of methylphosphonic acid and (aminoiminomethyl)urea (1 : 1))



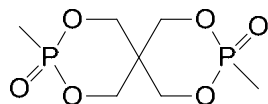
- (c) 2,4,6-トリプロピル-1,3,5,2,4,6-トリオキサトリホスホン酸 2,4,6-トリオキシド  
(2,4,6-Tripropyl-1,3,5,2,4,6-trioxatriphosphinane 2,4,6-trioxide)



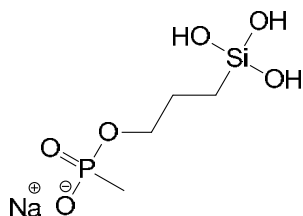
- (d) (5-エチル-2-メチル-2-オキシド-1,3,2-ジオキサホスフィナン-5-イル) メチルメチルメチル  
ホスホネート  
(5-Ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl) methyl methyl  
methylphosphonate)



- (e) 3,9-ジメチル-2,4,8,10-テトラオキサ-3,9-ジホスファスピロ [5.5] ウンデカン 3,9-  
ジオキシド  
(3,9-Dimethyl-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5] undecane 3,9-dioxide)



- (f) メチルホスホン酸 3-(トリヒドロキシシリル) プロピルナトリウム  
(Sodium 3-(trihydroxysilyl) propyl methylphosphonate)

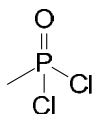


## (I I) ハロゲン化有機りん誘導体

(Halogenated organo-phosphorous derivatives)

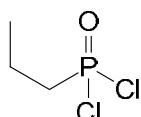
## (a) 二塩化メチルホスホン酸

(Methylphosphonic dichloride)

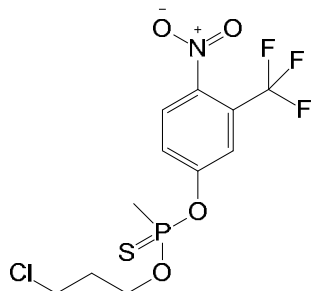


## (b) 二塩化プロピルホスホン酸

(Propylphosphonic dichloride)

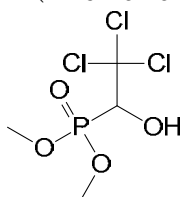
(c) *O*- (3-クロロプロピル) *O*- [4-ニトロ-3- (トリフロオロメチル) フェニル] メチルホスホノチオネート

(O-(3-chloropropyl) O-[4-nitro-3-(trifluoromethyl)phenyl] methylphosphonothionate)

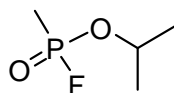


## (d) トリクロルフオン (ISO)

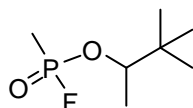
(Trichlorfon (ISO))

(e) *O*-イソプロピル=メチルホスホノフルオリダート (サリン)

(O-Isopropyl methylphosphonofluoridate (sarin))

(f) *O*-ピナコリル=メチルホスホノフルオリダート (ソマン)

(O-Pinacolyl methylphosphonofluoridate (soman))



## (4) 有機けい素化合物

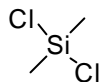
(Organo-silicon compounds)

- シラン

(Silanes)

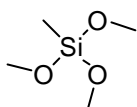
-- ジメチルジクロロシラン

(Dimethyldichlorosilane)



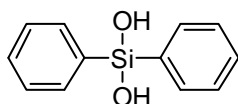
-- メチルトリメトキシシラン

(Methyltrimethoxysilane)



-- ジフェニルシランジオール

(Diphenylsilanediol)



-- テトラメチルシラン

(Tetramethylsilane)

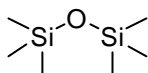


- シロキサン

(Siloxane)

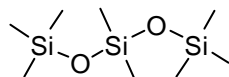
-- ヘキサメチルジシロキサン

(Hexamethyldisiloxane)

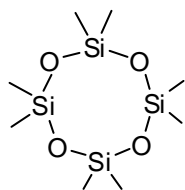


-- オクタメチルトリシロキサン

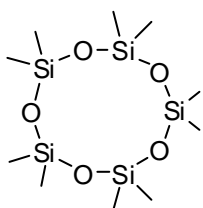
(Octamethyltrisiloxane)



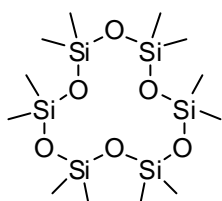
- オクタメチルシクロテトラシロキサン  
(Octamethylcyclotetrasiloxane)



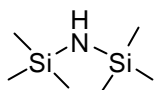
- デカメチルシクロペンタシロキサン  
(Decamethylcyclopentasiloxane)



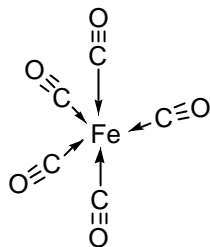
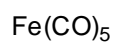
- ドデカメチルシクロヘキサシロキサン  
(Dodecamethylcyclohexasiloxane)



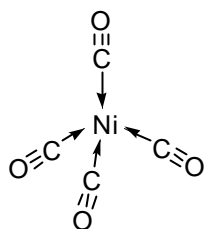
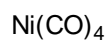
- ヘキサメチルジシラザン  
(Hexamethyldisilazane)



- (5) 鉄カルボニル  
(Iron carbonyl)

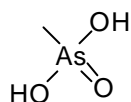


- ニッケルカルボニル  
(Nickel carbonyl)

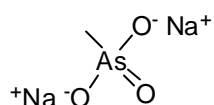


(6) 有機砒素化合物  
(Organo-arsenic compounds)

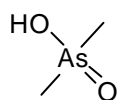
(a) メチルアルソン酸  
(Methylarsonic acid)



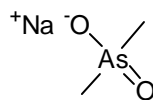
- ・ メチルアルソン酸ナトリウム  
(Sodium methylarsonate)



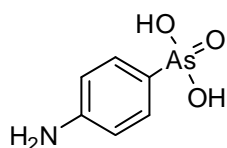
(b) カコジル酸  
(Cacodylic acid)



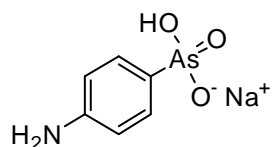
- ・ カコジル酸ナトリウム  
(Sodium cacodylate)



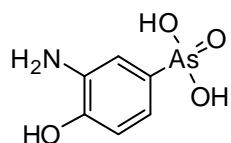
(c) パラ-アミノフェニルアルソン酸  
(*p*-Aminophenylarsonic acid)



- ・ パラ-アミノフェニルアルソン酸ナトリウム  
(Sodium *p*-aminophenylarsonate)

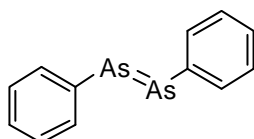


- (d) アミノヒドロキシフェニルアルソン酸  
(Amino-hydroxyphenylarsonic acids)

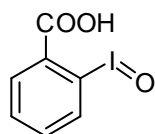


(3-Amino-4-hydroxyphenylarsonic acid)

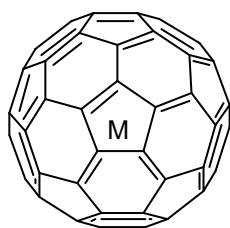
- (e) アルセノベンゼン  
(Arsenobenzene)



- (7) オルト-ヨードソ安息香酸  
( $\sigma$ -Iodosobenzoic acid)



- (8) 金属アルキル、金属フラーレン及びメタロセン  
(Metal alkyls, metal fullerenes and metallocenes)



Metallocenes  
( $C_5H_5$ )<sub>2</sub>M

- 除外されるもの  
(Exclusion)

- ー フォノフォス (ISO) (第 29.30 項)  
(Fonofos (ISO) (heading 29.30))

