

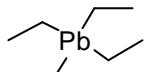
## 29. 31 その他のオルガノインオルガニック化合物 (Other organo-inorganic compounds.)

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

- テトラメチル鉛  
(Tetramethyl lead)



- テトラエチル鉛  
(Tetraethyl lead)

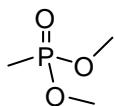


(2) トリブチルすず化合物  
(Tributyltin compounds)

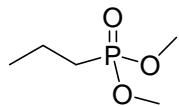
(3) 有機りん化合物  
(Organophosphorus compounds)

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

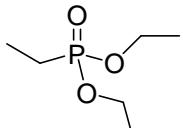
(a) メチルホスホン酸ジメチル  
(Dimethyl methylphosphonate)



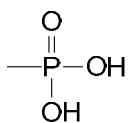
- プロピルホスホン酸ジメチル  
(Dimethyl propylphosphonate)



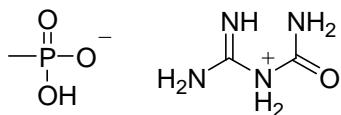
- エチルホスホン酸ジエチル  
(Diethyl ethylphosphonate)



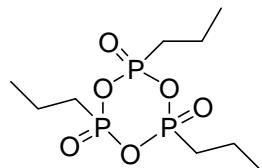
- メチルホスホン酸  
(Methylphosphonic acid)



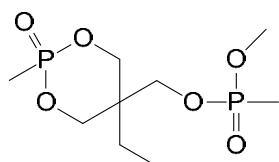
(b) メチルホスホン酸と (アミノイミノメチル) 尿素との 1:1 の割合の塩  
 (Salt of methylphosphonic acid and (aminoiminomethyl)urea (1 : 1))



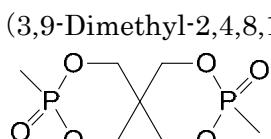
(c) 2,4,6-トリプロピル-1,3,5,2,4,6-トリオキサトリホスホン酸 2,4,6-トリオキシド  
 (2,4,6-Tripropyl-1,3,5,2,4,6-trioxatriphosphinane 2,4,6-trioxide)



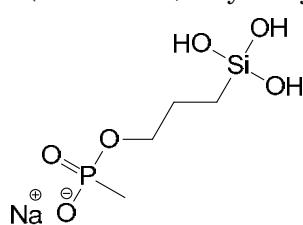
(d) (5-エチル-2-メチル-2-オキシド-1,3,2-ジオキサホスフィナン-5-イル) メチルメチルメチルホスホネート  
 ((5-Ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl) methyl methyl methylphosphonate)



(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)

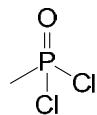


## ( I I ) ハロゲン化有機りん誘導体

(Halogenated organo-phosphorous derivatives)

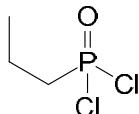
## ( a ) 二塩化メチルホスホン酸

(Methylphosphonic dichloride)

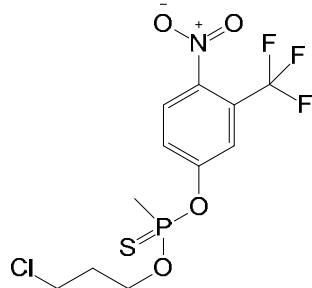


## ( b ) 二塩化プロピルホスホン酸

(Propylphosphonic dichloride)

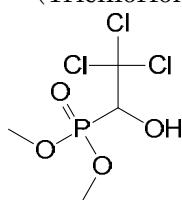
( c ) *O*- (3-クロロプロピル) *O*- [4-ニトロ-3- (トリフルオロメチル) フェニル] メチルホスホノチオネート

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

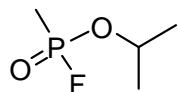


## ( d ) トリクロルフォン (ISO)

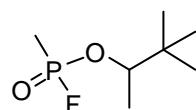
(Trichlorfon (ISO))

( 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))



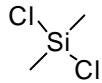
(4) 有機けい素化合物  
(Organosilicon compounds)

— シラン

(Silanes)

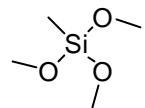
-- ジメチルジクロロシラン

(Dimethyldichlorosilane)



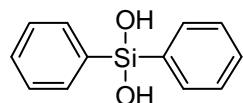
-- メチルトリメトキシシラン

(Methyltrimethoxysilane)



-- ジフェニルシランジオール

(Diphenylsilanediol)



-- テトラメチルシラン

(Tetramethylsilane)

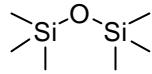


— シロキサン

(Siloxane)

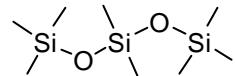
-- ヘキサメチルジシロキサン

(Hexamethyldisiloxane)

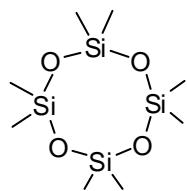


-- オクタメチルトリシロキサン

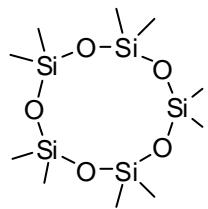
(Octamethyltrisiloxane)



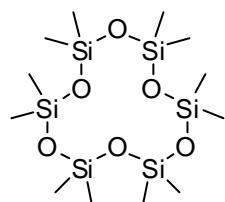
-- オクタメチルシクロテトラシロキサン  
(Octamethylcyclotetrasiloxane)



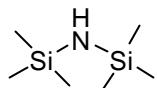
-- デカメチルシクロペンタシロキサン  
(Decamethylcyclopentasiloxane)



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

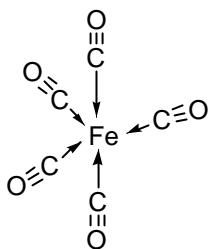
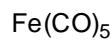


-- ヘキサメチルジシラザン  
(Hexamethyldisilazane)

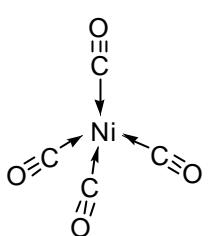


(5) 鉄カルボニル

(Iron carbonyl)

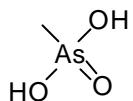


• ニッケルカルボニル  
(Nickel carbonyl)

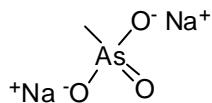


(6) 有機砒素化合物  
(Organic arsenic compounds)

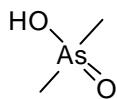
(a) メチルアルソン酸  
(Methylarsonic acid)



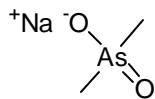
- メチルアルソン酸ナトリウム  
(Sodium methylarsonate)



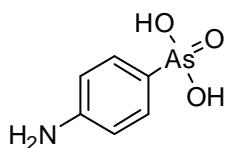
(b) カコジル酸  
(Cacodylic acid)



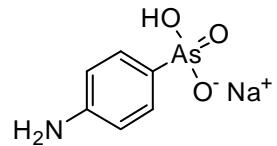
- カコジル酸ナトリウム  
(Sodium cacodylate)



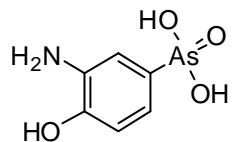
(c) パラ-アミノフェニルアルソン酸  
(*p*Aminophenylarsonic acid)



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

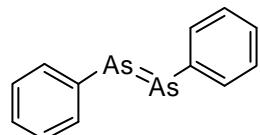


(d) アミノヒドロキシフェニルアルソン酸  
(Amino-hydroxyphenylarsonic acids)

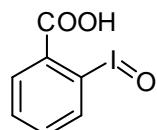


(3-Amino-4-hydroxyphenylarsonic acid)

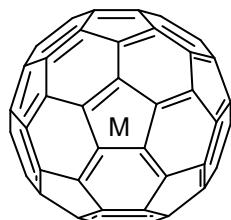
(e) アルセノベンゼン  
(Arsenobenzene)



(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  
 $(C_5H_5)_2M$

○ 除外されるもの

(Exclusion)

- フオノフォス (ISO) (第 29.30 項)  
(Fonofos (ISO) (heading 29.30))

