Notes on chemical groups from Sections A and B

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Question A 1 c: Other O-alkyl alkyl phosphonofluoridates

$$R_{1} = CH_{3}, C_{2}H_{5}, C_{3}H_{8}$$

$$R_{2} = C_{n}H_{2n+1}, n = 1 \text{ to } 10$$

Question A 2 b: Other O-alkyl N,N-dialkyl phosphoramidocyanidates

$$R_1$$
 OR₂ $R_1 = CH_3, C_2H_5, C_3H_8$
 $R_2 = C_nH_{2n+1}, n = 1 \text{ to } 10$

Question A 3 b: Other O-alkyl S-2-dialkyl aminoethyl alkyl phosphonothiolates

$$R_{1} = CH_{3}, C_{2}H_{5}, C_{3}H_{8}$$

$$R_{2} = C_{n}H_{2n+1}, n = 0 \text{ to } 10$$

$$R_{3} = CH_{3}, C_{2}H_{5}, C_{3}H_{8}$$

$$R_{3} = CH_{3}, C_{2}H_{5}, C_{3}H_{8}$$

Question A 4 b: Other alkyl phosphonyldifluorides

$$R_{1} - P$$
 F
 $R_{1} = CH_{3}, C_{2}H_{5}, C_{3}H_{8}$

Question A 5 b: Other O-alkyl O-2-dialkyl aminoethyl alkyl phosphonites

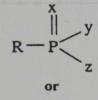
Question A 6 c: Other O-alkyl alkyl phosphonochloridates

$$R_{1} - P = CI$$

$$R_{1} = CH_{3}, C_{2}H_{5}, C_{3}H_{8}$$

$$R_{2} = C_{n}H_{2n+1}, n = 1 \text{ to } 10$$

Question B 10 x: Other chemicals containing a phosphorus atom to which is bonded an alkyl group but no other carbon atoms



R-P

x, y and z may be any functional group or heteratom, provided that no other carbon atoms are directly bonded to this phosphorus.



All of the chemicals in Question B 10 are examples of the structure described.