

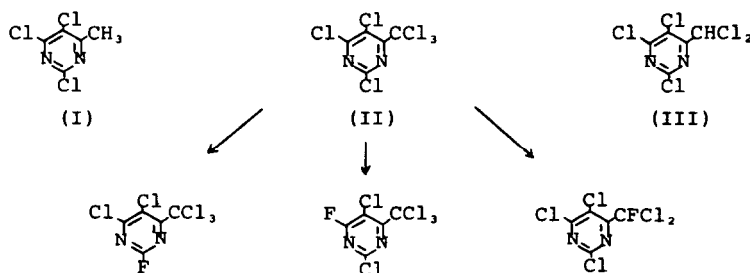
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FLUORINATED HETEROCYCLES: SELECTIVE CHLORINE/FLUORINE EXCHANGE REACTIONS ON PYRIMIDINES

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Fluorination reactions of 2,4,5-Trichloro-6-methylpyrimidine (I), 2,4,5-Trichloro-6-trichloromethylpyrimidine (II) and 2,4,5-Trichloro-6-dichloromethylpyrimidine (III) are described. In particular selective monofluorinations of (II) dependent on the various fluorination agents HF, NaF and SbF₅ are discussed.



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SYNTHESIS AND SPECTROSCOPIC STUDY OF NEW 3- OR 4-F-ALKYL PYRAZOLES

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An univocal synthesis of new 4-perfluoroalkyl-3-ethoxycarbonyl pyrazoles is presented. A regiospecific addition of CH₂N₂ is observed on F-alkynyl esters. This regiospecificity disappears in the case of non-substituted F-alkynyl compounds. New isomeric pyrazoles obtained by this way have been unambiguously identified on the basis of NMR and mass spectra. Comparison of these results with those of homologous hydrocarbon compounds gives an approach to justify their formation.