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SOME REACTIONS OF POLYFLUOROBENZODINITRILES AND RELATED COMPOUNDS

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The nucleophilic substitution reactions of polyfluoro-1,4 1,3 and 1,2 benzodinitriles have been investigated. Reaction is observed to take place largely at the benzene ring, although in some cases the nitrile also reacts with the incoming nucleophile. The effect of the CN groups on the orientation of the reaction will be discussed.

When the nitrile groups in these compounds are hydrolysed and decarboxylated a number of tetrahalobenzenes are obtained and both nucleophilic and electrophilic reactions have been carried out on these substrates. The mechanism of formation of the products will be discussed with an emphasis on the orientation.