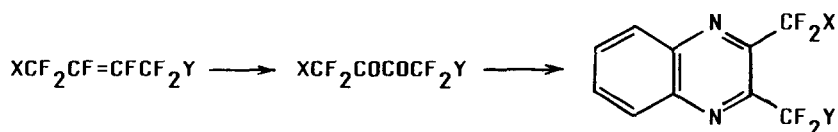


2,3-BIS(POLYFLUOROALKYL)QUINOXALINES, SYNTHESIS AND REACTIVITY

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Hexafluoro-1,3-butadiene was converted into 1,4-dibromo-hexafluoro-2-butene, 1-chloro-4-iodo-hexafluoro-2-butene and octafluoro-2-butene. Controlled oxidation of these olefins afforded 1,2-diketones in moderate yields. Condensation of the diketones with *o*-phenylenediamine gave the 2,3-bis(polyfluoroalkyl)quinoxalines.



X, Y = F, Cl, Br, I

Chemical reactivity of the 2,3-bis(polyfluoroalkyl)-quinoxalines in photochemically-induced reactions with polyfluoroolefins, in organometallic reactions and in reactions with some nucleophiles, was studied.