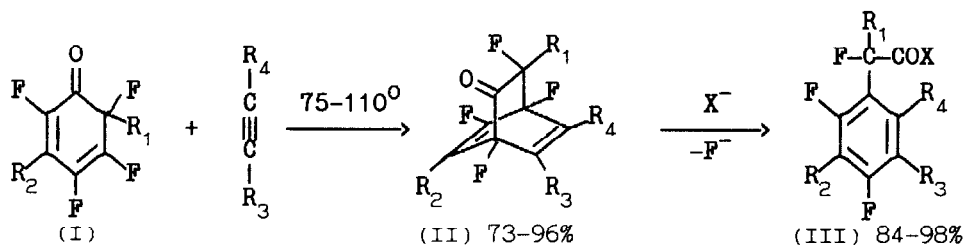


SYNTHESIS OF FLUORINATED DERIVATIVES OF ARYLACETIC ACIDS

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Polyfluorinated cyclohexa-2,4-diene-1-ones (I) readily undergo the Diels-Alder reaction with acetylenes to form the corresponding [2+4]-cycloadducts (II) in good yields.



$$\text{R}_1, \text{R}_2 = \text{Hal or OAr}; \quad \text{R}_3, \text{R}_4 = \text{H, Alk, Ar};$$

$$\text{X} = \text{OH, OCH}_3, \text{OC}_2\text{H}_5, \text{N}(\text{C}_2\text{H}_5)_2.$$

The latter are aromatized by nucleophilic reagents to the fluorinated derivatives of arylacetic acids (III) under mild conditions.