Oxyfluorfen

Problem 16.16

The herbicide oxyfluorfen can be prepared by reaction between a phenol and an aryfluoride. Propose a mechanism.

Problem 16.17

Treatment of p-bromotoluene with NaOH at 300 °C yields a mixture of two product treatment of m-bromotoluene with NaOH yields a mixture of three products, Expla

Problem 16.61

Propose a mechanism for the reaction of 1-chloroanthraquinone with methoxide ion to give the substitution product 1-methoxyanthraquinous Use curved arrows to show the electron flow in each step.

1-Chloroanthraquinone

1-Methoxyanthraquinone

Problem 16.62

Gilloropyridine undergoes reaction with dimethylamine to yield 4-dimethylamine propose a mechanism for the reaction.

$$\begin{array}{c|c} CI & N(CH_3)_2 \\ \hline & HN(CH_3)_2 \\ \hline & N \end{array} + HCI$$

Problem 16.63

 η Bromotoluene reacts with potassium amide to give a mixture of m- and η methylaniline. Explain.