

31 Making halogenoarenes – Part 1

—Answers

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Work through these after trying the questions yourself.

31.1 An aryl halide —a halogen bonded to a benzene ring.

31.2 Cl_2 (or Br_2) with an AlCl_3 (or AlBr_3) catalyst.

31.3 It is the catalyst.

31.4 A hydrogen atom.

31.5 Positions 2 and 4.

31.6 The methyl group pushes electron density *into* the ring, making it more electron-rich. This activates the ring (so it reacts faster than benzene) and steers the incoming chlorine to positions 2 and 4.