

33 Making carboxylic acids – Part 1

—Answers

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Work through these after trying the questions yourself.

33.1 The -COOH (carboxyl) group.

33.2 Hot alkaline KMnO_4 .

33.3 Benzoic acid.

33.4 SOCl_2 or PCl_5 (also PCl_3).

33.5 It is all turned into a -COOH group.

33.6 Both give benzoic acid. The hot KMnO_4 oxidises the *entire* side-chain —whatever its length —down to a single -COOH group attached to the ring, so the longer ethyl chain ends up the same as the methyl one.