

Dr Clays A-level Chemistry

UNIT 3 TOPIC 7
POLYMERS

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Unit 3 Topic 7 Polymers

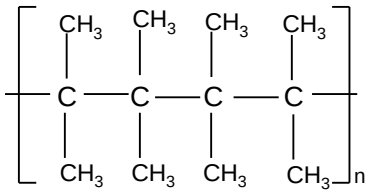
Exercise 1 - addition polymers

1. Draw two repeating units of the polymer produced by the following alkenes:

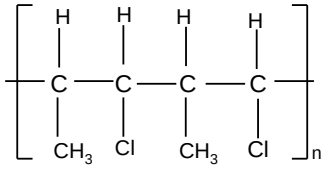
a) propene
b) but-1-ene
c) but-2-ene
d) phenylethene
e) tetrafluoroethene

2. Name the following polymers and draw the monomer from which the polymer is made:

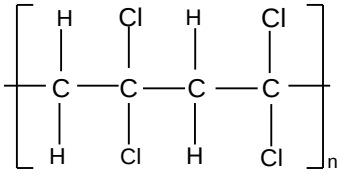
a)



b)



c)



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Exercise 2 – condensation polymers

1. Predict the products of the following reactions:

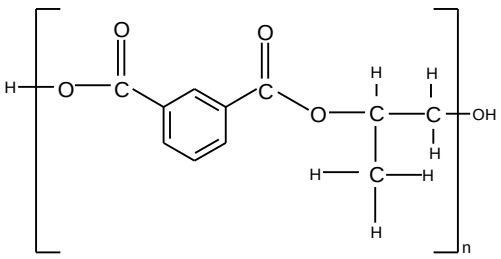
a) benzene-1,4-dicarboxylic acid with 1,2-diaminoethane
b) hexane-1,6-dioyl chloride with propan-1,2-diol
c) ethanedioic acid with ethan-1,2-diol

2. From what monomers can the following condensation polymers be made:

a) terylene

b) nylon 66

c)



d)

