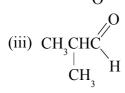
Chemguide - answers

ALDEHYDES AND KETONES: MAKING THEM

- 1. a) Potassium (or sodium) dichromate(VI) solution acidified with dilute sulphuric acid. The mixture would turn from an orange solution to a green one.
 - b) (i) CH₃CH₂CHO (In an exam, you should show the aldehyde group in full as in (iii) below)
 - (ii) $CH_3CH_2CCH_3$ (For most purposes you could also use $CH_3CH_2COCH_3$, but in an exam don't take the chance.)



c) (i) $CH_3CH_2CH_2CHCH_3$ OH

(The -OH group has to be on a carbon atom next to an end CH₃ group, but it doesn't matter whether you draw it near the left-hand end or the right-hand end.)

- (ii) CH₃CH₂CH₂CH₂OH
- d) Use an excess of ethanol, and distill off the ethanal as soon as it is formed.