



- 1 Write an equation for each of these reactions **and** name the reaction type. Write *no reaction* if there is no reaction. [as always with organic reaction, show structural formulae]
- a butan-1-ol + acidified potassium dichromate(VI) (reflux)
- b propanal + Fehling's solution
- c 2,2-dimethylpropan-1-ol + hot concentrated sulfuric acid
- d propan-2-ol + acidified potassium dichromate(VI) (reflux)
- 2 Name and outline the mechanism for the reaction of butan-2-ol with hot, concentrated sulfuric acid to form but-1-ene.
- 3 Name and outline the mechanism for the reaction of propene with water in the presence of sulfuric acid as catalyst to form propan-2-ol.