



# REACTIONS OF ALCOHOLS 2

## **TASK**

Write balanced equations for the following reactions. Always **draw structural formulas** of organic compounds and **name the organic product**. Write *no reaction* if there is no reaction!

- 1) butanal + Tollen's reagent with heating
- 2) methanol +  $\text{H}_2\text{SO}_4 / \text{K}_2\text{Cr}_2\text{O}_7$  refluxing
- 3) 2-methylbutan-1-ol + hot conc  $\text{H}_2\text{SO}_4$
- 4) 2-methylbutan-1-ol +  $\text{H}_2\text{SO}_4 / \text{K}_2\text{Cr}_2\text{O}_7$  distilling off the product
- 5) propanone + Tollen's reagent with heating
- 6) 3-methylbutanal + Fehling's solution with heating
- 7) methanol + hot conc  $\text{H}_2\text{SO}_4$
- 8) propan-2-ol +  $\text{H}_2\text{SO}_4 / \text{K}_2\text{Cr}_2\text{O}_7$  refluxing
- 9) 2,2-dimethylbutanal +  $\text{H}_2\text{SO}_4 / \text{K}_2\text{Cr}_2\text{O}_7$  with heating
- 10) pentan-3-ol +  $\text{H}_2\text{SO}_4 / \text{K}_2\text{Cr}_2\text{O}_7$  with heating