

CHEMISTRY ASSIGNMENT

Calculation / Reaction Questions

- (1). Write the balanced chemical equation for the saponification of triglyceride using NaOH
- (2). If 5 g of fat reacts

completely with excess NaOH to give 4.8 g of soap, calculate the percentage yield

(3). A student uses 20 cm³ of soap solution to produce lather in soft water but requires 45 cm³ in hard water.

(4a) What does this indicate about the hardness of the water?

(b) Explain why more soap solution is needed.

(5). Write the structural formula for a typical alkylbenzene sulphonate detergent.

(6). A detergent contains 60% active ingredients, 25% builders and 15% fillers. Calculate the mass of active ingredient in a

250 g sample.

