

QUESTION 1

- 1.1. C ✓✓
- 1.2. D ✓✓
- 1.3. B ✓✓
- 1.4. A ✓✓
- 1.5. A ✓✓

[10]

QUESTION 2

- 2.1.
- 2.1.1. A pure substance is a substance that cannot be separated into simpler components by physical methods. ✓✓
- 2.1.2.1 Element ✓
- 2.1.2.2 Consists of only one type of atom. ✓
- 2.1.2.3 It is a combination of different metals (copper and zinc). ✓
- 2.2. Pots and pans are made of metal, because metal is a good conductor which allows heat to be transferred so that food can cook. ✓ The handles are insulators so that you do not burn your hands when you pick up a hot pot. ✓
- 2.3.1. (a) Temperature ✓
(b) Time ✓
- 2.3.2. Boiling point is the temperature of a liquid at which its vapour pressure equals to the external (atmospheric) pressure ✓✓
- 2.3.3. The temperature remains constant because the energy is absorbed by the molecules. ✓
The strength of the intermolecular forces between the molecules decreases. ✓
The particles move faster and spaces between the particles increases. ✓
The substance changes phase from liquid to gas ✓

[15]

Physical Science Grade 2013 June Questionsd

Jin-Ying Zhang



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web isolation of trimyristin from nutmeg purpose the purpose of this experiment is to isolate myristic acid from ground nutmeg seeds nutmeg seeds are extracted using tbme to yield crude trimyristin then recrystallized to yield pure trimyristin which will be hydrolyzed and undergo esterification

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web in this week s lab experiment the purpose of this lab is to new techniques isolate thechemical trimyristin from the common spice nutmeg this lab requires five techniques simpledistillation vacuum filtration melting point determination reflux and extraction

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web aug 4 2008 the purpose of this experiment was extract isolate and purify the natural product trimyristin from the spice nutmeg the trimyristin was extracted by using the solvent diethyl ether and

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web trimyristin is found in the fixed oil of nutmeg the fixed oil comprises approximately 24 40 of the nutmeg seed trimyristin comprises 73 of the fixed oil overall trimyristin should have percent recovery of 18 29 1 figure 1 shows how trimyristin is triester formed from the dehydration reaction between glycerol and myristic acid oh

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web purpose the purpose of this lab is to extract trimyristin from nutmeg as well as synthesizing myristic acid from the extracted trimyristin using base hydrolysis and naoh acidification using hcl is necessary to characterize the product by finding the melting point

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web in this lab trimyristin is extracted from ground nutmeg occurring in many vegetable oils as well as myristic acid trimyristin consists of long saturated hydrocarbon chains and it is relatively nonpolar thus using a relatively nonpolar solvent trimyristin can be easily extracted by the concept of like dissolves like

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web the desired components of solids are dissolved in a solvent then the remaining solid is filtered so that the selected element and solvent are left over in this lab the trimyristin was dissolved into the solvent and the remainder of the nutmeg

was filtered out

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