

CHEMISTRY HONORS DESIGN A HANDWARMER LAB ACTIVITY

Prior to 4/3

1. Copy Question
2. Read purpose
3. Create Safety Table for every Chemical you'll be using in the lab (Example at bottom of page)

a. NaOH	e. NaCH ₃ CO ₂
b. NH ₄ NO ₃	f. Na ₂ CO ₃
c. CaCl ₂	g. NH ₄ Cl
d. LiCl	
4. Copy Cost of Chemicals

Solid	NH ₄ NO ₃	CaCl ₂	LiCl	NaCH ₃ CO ₂	Na ₂ CO ₃	NH ₄ Cl
Cost	19.50	11.25	68.30	27.30	8.05	12.11
(\$)/Kg						

5. Copy Pre Lab Procedure into Lab book in a procedure/observation t chart (paraphrase the procedure. You do not need to write it word for word)

The links of the SDS is found below

<https://facimage.fishersci.com/msds/21300.htm>

<http://archpdfs.lps.org/Chemicals/Ammonium%20Nitrate.pdf>

http://www.flinnsci.com/globalassets/flinn-scientific/all-free-pdfs/sds196_calcium-chloride.pdf/

<https://www.fishersci.com/store/msds?partNumber=L121100&productDescription=LITHIUM+CHLORIDE+CE RTIFIED+100G&vendorId=VN00033897&countryCode=US&language=en>

<http://archpdfs.lps.org/Chemicals/SodiumAcetateAnhydrous.pdf>

https://www.flinnsci.com/globalassets/flinn-scientific/all-free-pdfs/sds716_sodium-carbonate.pdf/

https://www.flinnsci.com/globalassets/flinn-scientific/all-free-pdfs/sds53_ammonium-chloride.pdf/

DESIGN A HAND WARMER LAB

Question: Which chemical should be used in the making of a hand warmer?

Purpose:

Your team is in charge of designing a hand warmer with the following criteria:

1. The hand warmer must contain 10 g of an ionic solid and an inner pouch filled with 40 mL of water.
2. Activating the hand warmer must increase the temperature of the resulting solution by at least 20 °C
3. Cost effectiveness and safety

Safety Precautions

Prior to experiment, a basic understanding of chemical hazards is needed. In general, avoid contact of all chemicals with eyes and skin. Wear chemical splash goggles. Wash hands thoroughly with soap and water before leaving the laboratory.

Pre Lab Procedure

- A. Working in pairs, determine the heat energy change for the dissolving of NaOH (ΔH_{soln})
 1. Determine the safety hazard for NaOH. Record the safety hazard in your lab book

Designing A Hand Warmer Pre Lab Answers

Kathleen Armour



Designing A Hand Warmer Pre Lab Answers:

Typography and Design for Newspapers Rolf F. Rehe, 1985 *Hi-fi News* , 2006 *The Commercial and Financial Chronicle* , 1953-03

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Great ... Trinity more than just an abstract doctrine that we take down off a shelf, dust off and admire once a year. Today we go forth from here mandated by our God ... Homily For Holy Trinity Sunday, Year A May 30, 2023 — Glory Be To The Father, To The Son And To the Holy Spirit, Amen! Readings: 1st: Ex 34, 4-6.8-9; Ps. (Dan 3, 52-56); 2nd: 2Cor 13: 11-13; ...

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