High Oleic Oil
Experiment

1. Propose an experiment to verify the enhanced cloud point and oxidative stability claims of high oleic oil versus normal soybean oil and another type of oil.
2. Conduct the experiment after approval by your instructor.
3. Write a lab report on your findings. Include in your conclusion whether the characteristics are beneficial or not beneficial to the consumer/industry.

For further info: http://www.apag.org/oleo/APAG11/stm003.html for procedure to determine cloud point

Vocabulary:
cloud point -

oxidative stability – (rancidification)

Lab Report Format

Purpose: Describe the purpose of the investigation
Equipment: List the equipment and materials used in the investigation
Equipment Set-up: If a complicated set-up is required, draw the set-up.
Procedure: Number the steps taken to complete the investigation.
Data and Calculations: Provide the data in a table format, including units. Complete calculations and label when necessary. Write a short paragraph summarizing what the data says after each table.
Conclusion: Using the data collected, make a conclusion about the function of the oils. Be sure to relate the results to the information you have learned throughout this unit (i.e. chemistry of the oils, structure of the oils, [bonds}, and benefits of the structure to the function tested).