



California State University of Bakersfield, Department of Chemistry

Emulsion



Standards:

HS-PS1-2. Construct and revise an explanation for the outcome of a simple chemical reaction based on the outermost electron states of atoms, trends in the periodic table, and knowledge of the patterns of chemical properties.

Introduction:

Under normal conditions, there are certain liquids that just do not mix. For example, oil and vinegar are two liquids that repel each other due to differences in polarity and density. However, with the assistance of a substance known as an emulsifier, it is possible to force them to mix!

Materials:

- 1½ cup vinegar
- 1½ cup vegetable oil
- 3 jars with lids (that hold approximately 1 cup of liquid each)
- 3 tbsp. egg yolk (this required the yolk of 3 eggs)

Safety:

- Always have an adult with you to help you during your experiment.

