

Exercise 1.24

Two beakers contain clear, colorless liquids. When the contents of the beakers are mixed a white solid is formed. (a) Is this an example of a chemical or a physical change? (b) What would be the most convenient way to separate the newly formed white solid from the liquid mixture—filtration, distillation, or chromatography?

Solution

The white solid is produced as a result of a chemical reaction, so this is an example of a chemical change. In order to separate the white solid from the liquid mixture, filtration is the most convenient method.