

AP Chemistry Daily Videos

3.7 Solutions and Mixtures

Video #1

1. Why is a chocolate chip cookie a mixture but brass a solution?
2. Explain how a homogeneous mixture is different from a solution.
3. In your own words, what is solvation?

Ⓜ 4. Show your work for the following MC question. Be sure to include any formulas.
1:50 Make any notes of how to solve the problem based on the video's explanation.

If 200. mL of 0.60 M $\text{MgCl}_2(\text{aq})$ is added to 400. mL of distilled water, what is the concentration of $\text{Mg}^{2+}(\text{aq})$ in the resulting solution? (Assume volumes are additive.)

- | | |
|-----------------|-----------------|
| A 0.20 M | C 0.40 M |
| B 0.30 M | D 0.60 M |

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3:28 5. Show your work for the next MC question.

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4:43 6. Show your work for the FRQ. Make any notes of how to solve the problem based on the video's explanation.

7. Can you provide an example of a solid/solid mixture not used in the video?
gas/liquid mixture?