

**Directions:** Choose the letter of the correct answer.

1. What is the equivalent weight of  $\text{NH}_3$  (MM = 17 g/mol)?
  - a. 8.5 g/equivalent
  - b. 17 g/equivalent
  - c. 34 g/equivalent
  - d. 51 g/equivalent

For numbers 2-5, consider a 30%(v/v) solution of ethanol (MM = 46 g/mol;  $\rho = 0.80$  g/mL). The density of the solution is 0.90 g/mL.

2. What is the concentration of the solution in %(w/v)?
  - a. 22 %
  - b. 24 %
  - c. 27 %
  - d. 30 %
3. What is the concentration of the solution in %(w/w)?
  - a. 22 %
  - b. 24 %
  - c. 27 %
  - d. 30 %
4. What is the molar concentration of the solution?
  - a. 0.52 M
  - b. 0.66 M
  - c. 5.20 M
  - d. 7.88 M
5. What is the molal concentration of the solution?
  - a. 0.52 m



## Concentration of Solutions

*Practice Questions*

- b. 0.66 m
- c. 5.20 m
- d. 7.88 m



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