

## Ammonium Acetate 0.1% w/v Molarity - HPLC Primer

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Percentage given as w/v means **weight over volume**. This is typically used for solids dissolved in a liquid.

Ammonium acetate is a solid and is often used in HPLC mobile phases. Suppose you have a 0.1 % (w/v) ammonium acetate solution but your SOP requires you to state the concentration in mM. How do you convert? You will need the molecular weight of the solute (77.1 g/mol in this ca se.)

$$0.1\% (w/v) = \frac{0.001 g}{mL}$$

- 1. Convert the percent to grams per mL
- 2. Change grams to mol (use the molecular weight)
- 3. Change mL to L
- 4. You will get mol per liter, or M. This may be expressed as mM by multiplying by 1000.

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