

What is 0.1 % w/v ammonium acetate in terms of molarity – FAQ

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 case.)



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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MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com

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