

Perform the following calculations.

1) Calculate the volume (in mL) of 1.50 M NaCl solution required to provide 0.500 moles of NaCl.

2) Calculate the number of moles of KCl present in 125 mL of 0.250 M KCl solution.

3) Calculate the mass of 0.777 moles of KNO_3 .

4) Calculate the number of moles present in 75.0 kg of NaNO_3 .