

Practice - Mixing Strong Acids and Bases

- 1.) Calculate the pH resulting from mixing 50.0 mL 0.150 M NaOH with 50.0 mL 0.200 M HCl.
- 2.) Calculate the pOH resulting from mixing 75.0 mL 0.200 M HBr with 225.0 mL 0.150 M KOH.
- 3.) Calculate the pH when 100.0 mL of 5.00 g LiOH is mixed with 100.0 mL of 6.00 g HCl.
- 4.) How much HCl_(g) would need to be added to 1.00 L of 0.0120 M LiOH solution, to make a final solution with a pH of 11.30?
- 5.) How much NaOH, in grams, would need to be added to 0.750 L of 0.055 M HBr solution, to make a final solution with a pH of 1.75?
- 6.) What mass of Mg(OH)₂ would need to be added to 0.400 L of 0.0175 M HCl solution, to make a final solution with a pH of 3.55?