

7. Give a recipe for preparing a sodium carbonate/sodium bicarbonate buffer solution having a pH of 9.5. **For carbonic acid,  $\text{H}_2\text{CO}_3$ ,  $\text{pK}_{\text{a}1} = 6.35$  and  $\text{pK}_{\text{a}2} = 10.33$**

8. A saturated solution of silver chromate ( $\text{Ag}_2\text{CrO}_4$ , a sparingly soluble solid, formula mass 331.0 g/mol), was found to have a chromate ion concentration of  $3.2 \times 10^{-4} \text{ M}$  at  $25^\circ\text{C}$ . What is (a) the  $K_{\text{sp}}$ ; and (b) solubility of the salt in mg/mL? **How could you dissolve a sample of the salt?**

9. Calculate the solubility in mg/mL of  $\text{PbCl}_2$  ( formula mass 276.2 g/mol) in 0.25 M sodium chloride solution at  $25^\circ\text{C}$ .  $K_{\text{sp}}$  for lead chloride is  $1.8 \times 10^{-10}$  at  $25^\circ\text{C}$ .

10. Write an equation to show the formation of the complex ion  $[\text{Ag}(\text{NH}_3)_2]^+$  from silver ion and aqueous ammonia then calculate the concentration of silver ions in solution if exactly 0.100 mol of silver nitrate is added to exactly **500 mL of 0.800 M ammonia** solution.  $K_f$  for  $[\text{Ag}(\text{NH}_3)_2]^+$  is  $1.7 \times 10^7$ .

# Sodium Carbonate Buffer Recipe

**Jicheng Xie**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Sodium Carbonate Buffer Recipe:**

## The Enigmatic Realm of **Sodium Carbonate Buffer Recipe**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Sodium Carbonate Buffer Recipe** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

<https://letsgetcooking.org.uk/book/detail/default.aspx/the%20odyssey%20of%20destiny%20the%20official%20movie%20novelization.pdf>

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