

### Acid/Base Titration Practice Problems – Set 3

1. What is the pH of the solution when 25.00 mL 0.016 M lactic acid ( $\text{HC}_3\text{H}_5\text{O}_3$ ,  $K_a = 1.4 \times 10^{-4}$ ) is titrated with the following volumes of 0.010 M NaOH?

A. 0.00 mL

$$1.4 \times 10^{-4} = (x)(x)/(0.016 - x)$$

$$x = 0.00143$$

$$\text{pH} = -\log(0.00143) = 2.84$$

B. 10.00 mL



B	0.00040	0.00010	0	---
---	---------	---------	---	-----

C	-x	-x	+x	---
---	----	----	----	-----

A	0.00040-x	0.00010-x	x	---
---	-----------	-----------	---	-----

	0.00030	0	0.00010	---
--	---------	---	---------	-----

$$\text{pH} = 3.45 \text{ (3.38... Henderson-Hasselbalch answer)}$$

C. 20.00 mL



B	0.00040	0.00020	0	---
---	---------	---------	---	-----

C	-x	-x	+x	---
---	----	----	----	-----

A	0.00040-x	0.00020-x	x	---
---	-----------	-----------	---	-----

	0.00020	0	0.00020	---
--	---------	---	---------	-----

$$\text{pH} = 3.88 \text{ (3.85... Henderson-Hasselbalch answer)}$$

D. 30.00 mL



B	0.00040	0.00030	0	---
---	---------	---------	---	-----

C	-x	-x	+x	---
---	----	----	----	-----

A	0.00040-x	0.00030-x	x	---
---	-----------	-----------	---	-----

	0.00010	0	0.00030	---
--	---------	---	---------	-----

$$\text{pH} = 4.35 \text{ (4.33... Henderson-Hasselbalch answer)}$$

E. 40.00 mL



B	0.00040	0.00040	0	---
---	---------	---------	---	-----

C	-x	-x	+x	---
---	----	----	----	-----

A	0.00040-x	0.00040-x	x	---
---	-----------	-----------	---	-----

	0	0	0.00040	---
--	---	---	---------	-----

ICE table with  $\text{C}_3\text{H}_5\text{O}_3^- + \text{H}_2\text{O} \rightleftharpoons \text{HC}_3\text{H}_5\text{O}_3 + \text{OH}^-$  ( $K_b$ )

$$7.14 \times 10^{-11} = (x)(x)/[0.00040 \text{ mol}/0.0650 \text{ L}] - x)$$

$$x = 6.63 \times 10^{-7}; \text{ so } \text{pOH} = 6.18 \text{ and } \text{pH} = 7.82$$

# Chem Fax Acid Base Titrations Answers

**Xiaolong Qi**



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