

1427/4/8 :



H = 1, C = 12, N = 14, O = 16, Si = 28.1, Cl = 35.5, K = 39.1, Ca = 40.1, Fe = 56 :  
 $N_A = 6.02 \times 10^{23}$ ,  $R = 0.0821 \text{ atm L mol}^{-1} \text{ K}^{-1} = 8.314 \text{ J mol}^{-1} \text{ K}^{-1}$  :

	:		:
[H <sup>+</sup> ]	pH = 7.0	pH = 3.0	-1
4000 (	10000 (	400 (	2.3 ( <input type="radio"/>
( $K_a = 4.9 \times 10^{-10}$ )	0.135 g	500.0 mL	HCN -2
2.2 × 10 <sup>-6</sup> (	4.9 × 10 <sup>-12</sup> (	1.0 × 10 <sup>-2</sup> (	:M [H <sup>+</sup> ] 4.9 × 10 <sup>-10</sup> ( <input type="radio"/>
Na <sub>3</sub> PO <sub>4</sub> (	HPO <sub>4</sub> <sup>2-</sup> (	H <sub>2</sub> PO <sub>4</sub> <sup>1-</sup> (	: H <sub>3</sub> PO <sub>4</sub> PO <sub>4</sub> <sup>3-</sup> ( <input type="radio"/> -3
K <sub>b</sub> pH = 12.41	1.2 M	C <sub>2</sub> H <sub>5</sub> NH <sub>2</sub>	-4
2.6 × 10 <sup>-2</sup> (	3.9 × 10 <sup>-6</sup> (	1.2 × 10 <sup>-8</sup> (	5.5 × 10 <sup>-4</sup> ( <input type="radio"/>
52.0 g ( $K_a = 2.0 \times 10^{-4}$ )	HCNO	8.6 g	-5
4.3 (	5.8 (	6.4 (	3.7 ( <input type="radio"/>
(	) 0.02 mol NaOH	.0.1 M	-6
4.92 (	4.52 (	4.74 (	4.56 ( <input type="radio"/>

pH = 4 (K<sub>a</sub> = 1.8 × 10<sup>-5</sup>) -7

:

$\frac{\text{CH}_3\text{COOH}}{\text{CH}_3\text{COONa}}$

0.84 (      1.18 (      5.5 (      0.18 (     

0.1 mol (K<sub>a</sub> = 1.8 × 10<sup>-5</sup>)      0.15 mol      -8

)      0.01 mol

:

pH (

4.64 (      4.49 (      4.71 (      4.56 (