

Hill-Petrucci  
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23. a. 17.5%  
b. 17.9%  
c. 42%

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86. a. 0.500 M  $\text{H}_2\text{SO}_4$   
b. 5.71 M  $\text{C}_2\text{H}_5\text{OH}$   
c. 6.324 M KOH  
d. 0.0364 M  $\text{H}_2\text{C}_2\text{O}_4$   
e. 0.07770 M  $\text{C}_6\text{H}_{14}\text{O}_4$   
f. 0.783 M  $\text{C}_3\text{H}_9\text{N}$

24. a. 3.96%  
b. 7.31%  
c. 8.21%

30. a. 1ppb  
b. 35ppm  
c.  $1.3 \times 10^{-4}$  M  $\text{F}^-$

34. 1.39m

36. 31m

40. a.  $X = 0.0571$   
b.  $X = 0.101$