

(8) (a)

O	H
94.1	5.9
16	1
5.9	5.9

e.f. $\text{OH} = 17 \text{ g}$ $\frac{34}{17} = 2$ $(\text{HO})_2 = \underline{\underline{\text{H}_2\text{O}_2}}$

(b)

C	H	O
40	6.6	53.4
12	1	16
3.33	6.6	3.34
3.33	3.33	3.33
1	2	1

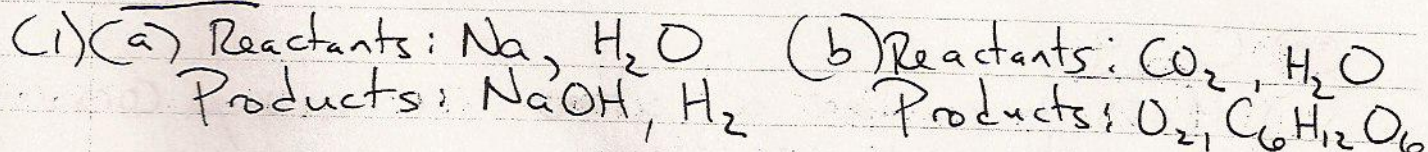
e.f. $\text{C}_2\text{H}_2\text{O} = 30 \text{ g}$ $\frac{120}{30} = (\text{C}_2\text{H}_2\text{O})_4 = \underline{\underline{\text{C}_4\text{H}_8\text{O}_4}}$

(9) Density = $\frac{m}{V}$ $V = \underline{\underline{22.4 \text{ L}}}$

(a) $\text{C}_3\text{H}_8 = \frac{44 \text{ g}}{22.4 \text{ L}} = 1.96 \text{ g/L}$ (b) $\frac{20.2 \text{ g}}{22.4 \text{ L}} = 0.902 \text{ g/L}$

(c) $\text{NO}_2 = \frac{46 \text{ g}}{22.4 \text{ L}} = 2.05 \text{ g/L}$

Ch. 8



(2) A catalyst increases the rate of a chemical reaction.

