





$$m = 56 g$$

$$\downarrow M = 44 g/mol$$

$$n = 1,273 mol$$

$$\sim 1,136$$

$$M = 3,408 mol$$

$$\downarrow x v_m = 22,4 L/mol$$

$$V_{gas} = 76,3 L$$

$$7) \quad V_{air} = \sum \sigma m^3$$

$$V_{O_2} = \frac{21}{100} V_{air} = 10,5 m^3$$

$$V_{O_2} = \frac{18}{100} V_{air} = 9,00 L$$

$$\Delta V_{O_2} = 1,5 m^3$$



$$m = 555,4 g \quad v_{gas} = 1,500 L$$

$$\uparrow M = 58 g/mol$$

$$\downarrow v_m = 24,1 L/mol$$

$$m = 9,57 mol$$

$$m = 6,23 mol$$

$$\sim 2,54 mol$$

$$\sim 13,46 mol$$

$$m_{CH_4} = 555,4 g$$

$$\Delta t = \frac{m_{CH_4}}{m_{CH_4} \cdot h} = \frac{555,4}{150} = 3,7 h$$