

~~$$M(\text{бензол}) = 33,5 \text{ г}$$~~

X-10-01

-теген.

$$M(r) = 10 \cdot M(H_2)$$

$$M = 33,5 \cdot 2 = 67 \text{ г/моль}$$

$$M(C_x H_{2x+2}) = 14x + 2$$

$$M(C_x + H_{2x+2}) = 14x + 14$$

$$M(C_x H_{2x+2}) = V(C_x H_{2x+2}) \cdot M(C_x H_{2x+2})$$

$$m(C_x H_{2x+2}) = y \cdot (14x + 2)$$

$$m(C_x + H_{2x+2}) = V(C_x + H_{2x+2}) \cdot M(C_x + H_{2x+2})$$

$$m(C_x + H_{2x+2}) = (1 - y) \cdot (14x + 14)$$

$$M(\text{бензол}) = M(C_x H_{2x+2}) + \frac{M(C_x + H_{2x+2})}{V(C_{\text{бензол}})}$$

$$67 = \frac{y(14x + 2) + (1 - y)(14x + 14)}{1}$$

$$y = \frac{14x - 53}{-12}$$

$$x = 1, y = -3,25$$

$$x = 2, y = -2,08$$

$$x = 3, y = -0,92$$

$$x = 4, y = 0,25$$