

25. 1 mM Essigsäure. 178 mM Natrioacetat.

$$4.75 + \log(178) = 7. \quad \text{pH. Neig}$$

$P_{Ks} \approx P_{KH}$ um 2. Einheit zu sein

26. $\bar{E} = k \frac{a_1 a_2}{D r^2} \quad k = 1389 \quad 12 \text{ A} = 1.7 \times 10^{-9}$
 $E \text{ in mol}^{-1} \quad r = 2 \times 10^{-10}$

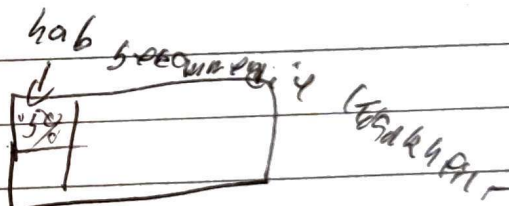
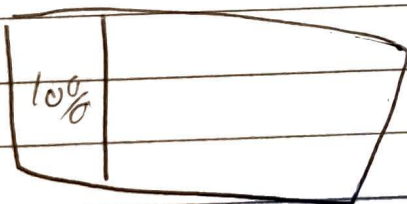
$$\bar{E} = 1.447 \text{ kg} \cdot \text{mol}^{-1}$$

$$E = 97.875 \text{ kJ} \cdot \text{mol}^{-1}$$

27. 1.5×10^7

28. $\binom{20}{10} = 184756$

29.



$$\frac{7.5\%}{95\%} = 0.079$$