**Situational tasks**

Solve problems using tables for determining the content of ethyl alcohol in aqueous-alcoholic solutions (STANDARD tables)

1. Determine the density of a water-alcohol solution containing 70% (by weight) alcohol at a temperature of + 25 ° C.

2. Determine the density of a water-alcohol solution containing 91% (by volume) alcohol at a temperature of -13 ºС.

3. Determine the volumetric alcohol content in the solution, if at a temperature of +5 ºС the reading of a glass alcohol meter is 83.5%.

4. Factory received 1275 Liters 95.7% alcohol. How much anhydrous alcohol was received by the factory.

Solve problems using tables of the State Pharmacopoeia

5. What is the concentration of the alcohol-water mixture in % (by mass), if the concentration (by volume) is 95%.

6. What is the density of 96.3% (by volume) alcohol?

7. How much water and alcohol you need to take to obtain 2 Kg 70% alcohol from 95%?

8. Obtain 1 kg33% of the available 90% alcohol. Find contraction.

9. Upon receipt of alcohol at the warehouse at a temperature of 19 ºC, its volume was 90 land the glass alcohol meter at the same temperature dropped to a division of 96.0. Determine the concentration of alcohol and take it into account.

10. A hydrometer immersed in an alcohol-water solution at a temperature of –5 ºC sank to a division of 0.82000. Determine the concentration of alcohol; take it into account if at a given temperature its volume is 80 l.