

Lesson 5.

Intermediate certification Control of knowledge, abilities, skills in module unit No. 2 "Particular issues of toxicological chemistry". CTA of volatile poisons. CTA of pesticides.

1. Volatile poisons definition and characteristic.
2. Isolation method of volatile poisons.
3. Chemical-toxicological analysis of hydrocyanic acid derivatives. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.
4. Chemical-toxicological analysis of alcohols. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.
5. Detection of ethanol and higher alcohols in blood and urine by gas-liquid chromatography.
6. Chemical-toxicological analysis of methyl alcohol. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.
7. Chemical-toxicological analysis of ethyl alcohol. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.
8. Chemical-toxicological analysis of ethylene glycol. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.
9. Pesticides. Definition and classifications.
10. Chemical-toxicological analysis of organochlorine compounds. DDT, HCCH, heptachlor.
11. Chemical-toxicological analysis of organophosphorus compounds: thiophos, karbafos, chlorophos and other.
12. Chemical-toxicological analysis of carbamic acid derivatives.
13. Chemical-toxicological analysis of synthetic pyrethroids.