

NCERT/CBSE CHEMISTRY CLASS 11 textbook

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CHAPTER TWELVE

ORGANIC CHEMISTRY – SOME BASIC PRINCIPLES AND TECHNIQUES

12.23 Discuss the principle of estimation of halogens, sulphur and phosphorus present in an organic compound.

When an organic compound is heated strongly with sodium, any halogens, nitrogen, and sulfur will be converted into inorganic sodium salts such as sodium halide, sodium cyanide, sodium sulfide, and sodium thiocyanate (if sulfur and nitrogen are present together).

Lassaigne's Sodium Fusion Test converts

C, H, O, N, S, X

$\text{Na} + \text{x} \rightarrow \text{NaX}$

$\text{Na} + \text{C} + \text{N} \rightarrow \text{NaCN}$

$\text{Na} + \text{S} \rightarrow \text{Na}_2\text{S}$

$\text{Na} + \text{C} + \text{S} + \text{N} \rightarrow \text{NaCNS}$

Qualitative tests can be performed on the resultant solution for the respective elements.