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1 Step 1-If the mass of the molecular ion is odd it contains at least one

 N=14amu 105-14=91

Steps 2-Determine max no of c’s

91/12=7.5 C7NH

Step 3-Add enough H’s to make up the rest of the mass

C7NH? 7H’s gives C7NH7 using the formular

 IHD=2N+2-M/2

7\*12=84

1\*14=14 (2(7.5)+2-7)/2=5

105-(84+14)=7

C7NH7>>C6NOH3

(2(6.5)+2-3)/2=6

B. Importance of organic compounds

* Production of explosives
* Production of dyes,cosmetics,perfumes
* Production of paper ,soap and detergent
* Generation of energy from coal and petroleum product

C Differences between homocyclic and heterocyclic

Homocylic Heterocyclic

* The ring of compounds are made of The ring of compounds are made of

Carbon atoms only more than one kind f atom

* Examples : benzene, toluene Examples : pyran,azocine etc

2. The retardation factor=(distance moved by solute)/(distance moved by solvent aldehydes)

 RA=?

RB=0.4590

RC=0.7295

Therefore A and B are more attached to the mobile phase than

B. A is from the Aldehyde family

 B is from the Alkyne family

c. 2,4 –Dinitrophenylhydrazine test is used to qualitatively test for carbonyl groups associated with and ketones

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| FUNCTIONAL GROUP  | EXAMPLES  |
| Alkyl halides  | Methyl chloride , butyl bromide |
| Alkanols | Methanol,ethanol |
| Esthers | Methoxyethane,phenoxybenzene |
| Aldehydes | Butanal,propanal |
| Ketones | 2-butanone ,diphenyl methanone |
| Alkanoic acid | Methanoic acid , ethanoic acid |
| Esters | Ethyl ethanoate , ethyl prpanoate |