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1B.
Explosive
For clothing
For food
Insecticides
For medicine

1C.
a. HOMOCYCLIC COMPOUNDS
Compounds having atoms of the same elements as ring members
while
HETEROCYCLIC COMPOUNDS
Compounds having atoms of different elements as ring members
b. HOMOCYCLIC COMPOUNDS
Rings contains atoms of the same elements
HETEROCYCLIC COMPOUNDS
Rings contains atoms of different elements
c. HOMOCYCLIC COMPOUNDS
Contains atoms of the same elements bonded together forming a ring
HETEROCYCLIC COMPOUNDS
contains atoms of two different elements bonded together forming a ring

2A. Distance of the solvent front=12.2cm
distance of different bands 2.4cm 5.6cm 8.9 cm
 $2.4+5.6+8.9 / 12.2=1$

2B. They belong to the aldehyde

2C. In testing for carbonyl functionality ketone or aldehyde

2D.
HOMOLOGOUS SERIES
FUNCTIONAL GROUP
EXAMPLES

HOLO ALKENES
-x

ALKANOATES
COO

ALKANALS
_CHO

ALKANONES
CO

ESTHERS
-O-

CYANO GROUP
-CN

PRIMARY AMINES
-NH₂