A solution of m-chloronailimne, m-chlorophenol and m-chlorobenzoic acid in ethyal acetate was extracted initially with a saturated solution of $NaHCO_3$ to give fraction A. The left over organic phase was extracted with dilute NaoH solution tio give fraction B. The final organiic layer was labelled as fraction C. Fractions A,B and C, contain respectively:

- A m-chlorobenzoic acid, m-chloroaniline and m-chlorophenol.
- B m-chlorobenzoic acid, m-chlorophenol and m-chloroaniline.
- m-chlorophenol, m-chlorobenzoic acid and m-chloronailine.
- m-chloroaniline m-chlorobenzoic acid and m-chlorophenol.

Explanation

m-chlorobenzoic acid dissolves in aq NaHCO3 while m-chlorophenol dissolves in aq NaOH.