

Name:

Date:

SEPARATION OF COMPONENTS FROM A TERNARY MIXTURE BY DISSOLUTION AND FILTRATION (1)

RECORD SHEET

Dissolution by HCl:

Balanced equation(s) of dissolution by HCl:

- I. Mass of ternary mixture (sand+limestone+salt):g
- III. Mass of the smaller filter paper:g
- V. Mass of the smaller filter paper + sand: g, g,g

- VII. Mass of sand:g

Dissolution by hot water:

Balanced equation(s) of dissolution by hot water:

Balanced equation for the reaction used to check that the filtrate is chloride ion free:

- II. Mass of ternary mixture (sand+limestone+salt):g
- IV. Mass of the bigger filter paper:g
- VI. Mass of the bigger filter paper+sand+limestone: g, g,g

- VIII. Mass of sand and limestone:g
- IX. Mass of dissolved salt:g

Composition of the ternary mixture:

w%SiO₂ =

w%NaCl =

w%CaCO₃ =

Relevant calculations: (continue on the back if necessary)