



Theoretical yield

= 0.159 g extra Na<sub>2</sub>CO<sub>3</sub> in filter flask

$2.25 \times 10^{-3} \text{ mol SrCl}_2$	$2 \text{ mol NaCl}$	$58.4 \text{ g NaCl}$	= <span style="border: 1px solid black; padding: 5px;"><math>0.292 \text{ g NaCl}</math></span>
$1 \text{ mol SrCl}_2$	$1 \text{ mol NaCl}$	$1 \text{ mol NaCl}$	

$2.25 \times 10^{-3} \text{ mol SrCl}_2$	$1 \text{ mol SrCO}_3$	$147.6 \text{ g SrCO}_3$	= <span style="border: 1px solid black; padding: 5px;"><math>0.369 \text{ g SrCO}_3</math></span>
$1 \text{ mol SrCl}_2$	$1 \text{ mol SrCO}_3$	$1 \text{ mol SrCO}_3$	

Actual yield

NaCl = 0.457g → 157% yield b/c SrCO<sub>3</sub> & excess reagent contaminated it

$0.04797 \text{ g SrCO}_3 + 0.159 \text{ g Na}_2\text{CO}_3 + 0.292 \text{ g NaCl} = 0.499 \text{ g}$  actual of everything

SrCO<sub>3</sub> = 0.321g → 87% yield b/c lost some to under filter paper