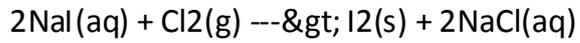


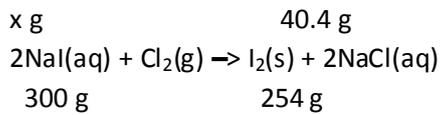
Answer on Question #40470 – Chemistry – Other

Iodine is prepared both in the laboratory and commercially by adding $\text{Cl}_2(\text{g})$ to an aqueous solution containing sodium iodide:



How many grams of sodium iodide, NaI , must be used to produce 40.4 g of iodine, I_2 ?

Solution



$$X = 40.4\text{g} \cdot 300\text{g}/254\text{g} = 47.7\text{g}$$

Answer: 47.7 g of sodium iodide