



Halogen Displacement Results

A colour change will only occur if the halogen present in the halogen solution is **more reactive** than the halogen present in the potassium salt.

The combinations of solutions highlighted in the table below will not react. Since each of the solutions contain the same halogen, displacement will not occur. You can use these reactions as colour controls:

- After mixing, if the colour of the solutions remains the same as the highlighted mixture in that row, then no reaction has occurred. Write **no reaction** in the box.
- After mixing, if the colour of the solutions changes from the highlighted mixture in that row, then describe the colour change in the box.

	potassium chloride	potassium bromide	potassium iodide
chlorine water	no reaction		
bromine water		no reaction	
iodine solution			no reaction

Which is the most reactive of the three halogens? _____

Explain how you know. _____

Which is the least reactive of the three halogens? _____

Explain how you know. _____
