

## Colors of Common ions

$\text{Fe}^{2+}$ and $\text{Fe}^{3+}$	various colors
$\text{Cu}^{2+}$	blue to green
$\text{Cr}^{2+}$	blue
$\text{Cr}^{3+}$	green or violet
$\text{Mn}^{2+}$	faint pink
$\text{Ni}^{2+}$	green
$\text{Co}^{2+}$	pink
$\text{MnO}_4^-$	dark purple
$\text{CrO}_4^-$	yellow
$\text{Cr}_2\text{O}_7^{2-}$	orange

## Flame Tests for Elements

<b>BLUE</b>	
Light blue	Arsenic and some of its compounds, selenium
<b>GREEN</b>	
Emerald Green	Copper compounds other than halide
Green/blue	$\text{CuBr}_2$ , arsenic, lead, antimony
Yellow-green	barium
<b>RED</b>	
Carmine	lithium compounds
Scarlet	calcium compounds
Crimson	strontium compounds
<b>VIOLET</b>	Some potassium compounds
<b>YELLOW</b>	Sodium