

AP Chem **Colors** to Know:

Flame Tests:

<u>element</u>	<u>color</u>
Cu	green
Li	red
K	violet
Sr	scarlet
Na	yellow
Ca	orange-red
Ba	yellow-green
Cs	deep violet

Ions:

<u>Ion</u>	<u>Color</u>
Mn ²⁺	pink
Cr ⁶⁺	orange
Cr ³⁺	dark green
CrO ⁴⁻	yellow
Cr ₂ O ₇ ²⁻	orange
Fe ²⁺	green
Fe ³⁺	yellow
Co ²⁺ in H ₂ O	pink
Co ²⁺ in acid	blue-purple
Cu ²⁺	blue
Cu ²⁺ anhydrous	white
Ni ²⁺	green

Precipitate Colors (a sampling)

silver chloride	white
silver sulfide	black
lead chloride	white
mercury chloride	white
lead chromate	yellow
mercury	black
aluminum hydroxide	white
iron (III) thiocyanate	blood red
copper(II) hydroxide	thick light blue
copper ammonia complex	thick dark blue

Halogens

chlorine	colorless
bromine	brown
iodine	pink

Gases:

Cl ₂	greenish yellow
I ₂	purple
NO ₂	brown
N ₂ O ₄	colorless