

QUALITATIVE ANALYSIS (CATIONS)

Group	Group reagent	Cations (Basic radicals)	Composition & colour of precipitate
1	dil HCl	Pb^{2+} (w)	$PbCl_2$; white
		Ag^+	$AgCl$; white (adv)
		Hg_2^{2+}	Hg_2Cl_2 ; white
2(A)	H_2S in presence of dil HCl (insoluble in YAS)	Pb^{2+} (w)	PbS ; Black
		Cu^{2+} (w)	CuS ; Black
		Hg^{2+}	HgS ; Black (adv)
		Bi^{3+}	Bi_2S_3 ; Black
		Co^{2+} Cd^{2+}	CoS ; Yellow
2(B)	H_2S in presence of dil HCl (soluble in YAS)	As^{3+}, Sb^{3+}	As_2S_3 ; yellow, Sb_2S_3 ; orange
		Sn^{2+}, Sn^{4+}	SnS ; brown, SnS_2 ; yellow
3	NH_4OH in presence of NH_4Cl	Fe^{3+} (w)	$Fe(OH)_3$; red brown
		Al^{3+} (w)	$Al(OH)_3$; gelatinous white
		Cr^{3+}	$Cr(OH)_3$; green (adv)
4	H_2S in presence of NH_4OH & NH_4Cl	Zn^{2+} (w)	ZnS ; white
		Ni^{2+} (w)	NiS ; black
5	$(NH_4)_2CO_3$ in presence of NH_4OH <small>Mns (Bull/Pine)</small>	Mn^{2+} (w)	$MnCO_3$; black, MnS ; black
		Ba^{2+} (w)	$BaCO_3$; white
		Ca^{2+} (w)	$CaCO_3$; white
		Sr^{2+}	$SrCO_3$; white
6	Na_2HPO_4 in presence of NH_4OH	Mg^{2+} (w)	$Mg(NH_4)PO_4$; white

Qualitative Analysis Of Cations Pre Lab Answers

University of Saskatchewan

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