

# 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 Lab Report Answers

**G Orfield**



**Qualitative Analysis Of Cations Lab Report Answers:**

## **Qualitative Analysis Of Cations Lab Report Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Qualitative Analysis Of Cations Lab Report Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://matrix.jamesarcher.co/public/book-search/index.jsp/Step%20By%20Step%20Psychological%20Suspense.pdf>

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