

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

Ensheng Dong



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Qualitative Analysis and Ionic Equilibrium George H. Schenk,1990 A supplement for courses with a qualitative analysis component this lab manual contains explanations of the chemistry of metal ions and anions It includes pre lab exercises experiments and lab reports

Chemistry in the Laboratory James M. Postma,Julian L. Robert,J. Leland Hollenberg,2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations

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Resources in Education ,2000-04

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Processing ,1979-07

The Cumulative Book Index ,1965 A world list of books in the English language

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Who's who in American Education Robert Cecil Cook,1968

Qualitative Analysis and Ionic Equilibrium George H. Schenk,Darrell D. Ebbing,1985 A supplement for courses with a qualitative analysis component this lab manual contains explanations of the chemistry of metal ions and anions It includes pre lab exercises experiments and lab reports

Principles Of Qualitative Inorganic Analysis Huda Alhasan; Nadiyah,Nadiyah Alahmadi,Huda S Alhasan,2021-01-26 This book provides notes for basic laboratory experiments in qualitative analysis of cations The book introduces readers to basic methods and laboratory safety Subsequent chapters cover six groups of cations Each chapter explains important details that are required to understand how a particular analytical method works for detecting cations in samples starting from sedimentation and ending with the identification Key Features Simple reader friendly format introductory notes and summary Covers several groups of metals Appendix for handy reference with tables and references This is a useful textbook for early chemistry students and teachers as it equips the readers with sufficient information required to analyze chemical samples and deduce the presence of specific cations as part of laboratory coursework

Nonsulfide Qualitative Analysis of Cations; Separating & Identifying Repr-Sentative Cations from Group A-E Judith C. Foster,1995-01-01

Qualitative Analysis and the Properties of Ions in Aqueous Solution Emil J. Slowinski,William L. Masterton,1990 This inexpensive qualitative analysis supplement offers maximum flexibility and can

accompany general chemistry texts Works well with any general chemistry text where the instructor wants more qualitative analysis in conjunction with regular class work

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