

SOLUTION OF CATIONS, GROUPS 1-5

group 1 cations: Ag^+ , Pb^{2+} , Hg_2^{2+}

group 2 cations: As^{3+} , Bi^{3+} , Cd^{2+} , Cu^{2+} , Hg^{2+} , Sb^{3+} , Sn^{2+}

group 3 cations: Co^{2+} , Fe^{2+} , Fe^{3+} , Mn^{2+} , Ni^{2+} , Zn^{2+} , Al^{3+} , Cr^{3+}

group 4 cations: Mg^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+}

group 5 cations: Li^+ , Na^+ , K^+ , Rb^+ , Cs^+ , NH_4^+

add $\text{HCl}(\text{aq})$

precipitate group 1 cations

AgCl , PbCl_2 , Hg_2Cl_2
insoluble chlorides

separate solution from precipitate

solution containing
groups 2, 3, 4, and 5 cations

add $\text{H}_2\text{S}(\text{g})$

precipitate group 2 cations

As_2S_3 , Bi_2S_3 , CdS , CuS , HgS , Sb_2S_3 , SnS
acid-insoluble sulfides

separate solution from precipitate

solution containing
groups 3, 4, and 5 cations

add $\text{NaOH}(\text{aq})$
or $\text{NH}_3(\text{g})$
add $(\text{NH}_4)_2\text{S}(\text{aq})$

precipitate group 3 cations

CoS , FeS , MnS , NiS , ZnS , $\text{Al}(\text{OH})_3$, $\text{Cr}(\text{OH})_3$
base-insoluble sulfides and hydroxides

separate solution from precipitate

solution containing
groups 4 and 5 cations

add $\text{Na}_2\text{CO}_3(\text{aq})$
[or $(\text{NH}_4)_2\text{HPO}_4(\text{aq})$]

Precipitate group 4 cations

MgCO_3 , CaCO_3 , SrCO_3 , BaCO_3
insoluble carbonates (or phosphates)

separate solution from precipitate

solution containing
group 5 cations

Group 1 Cation Analysis Answers

E Durkheim



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