

Otázka: Druhá třída kationtů - důkazy

Předmět: Chemie

Přidal(a): boban

2.A – Cu^{2+} , Cd^{2+} , Hg^{2+} , Bi^{3+}

2.B – $\text{Sn}^{2+, 4+}$, $\text{As}^{3+, 5+}$, $\text{Sb}^{3+, 5+}$

Důkaz Cu^{2+}

Cu + S → **CuS** (hnědočerná)

2Cu + HCl → **Cu[CuCl₄]** (zelená)

Cu + 4NH₃ → [Cu(NH₃)₄] (modrá)

Cu + 2OH → Cu(OH)₂ (světle modrá)

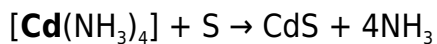
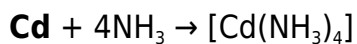
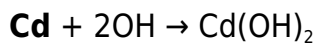
Cu + 2I → 2CuI₂ (světle žlutá)

2CuI₂ → **2CuI** + I₂

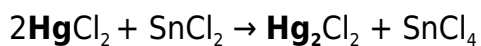
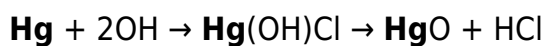
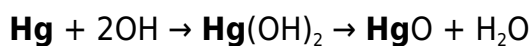
2Cu + [Fe(CN)₆] → **Cu₂[Fe(CN)₆]** HATSCHETOVA MĚŘ

Důkaz Cd^{2+}

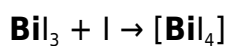
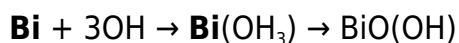
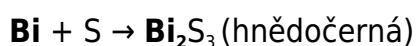
Cd + S → CdS (žlutá)



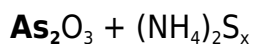
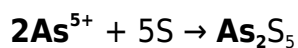
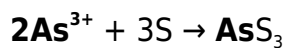
Důkaz Hg^{2+}



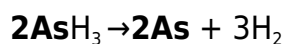
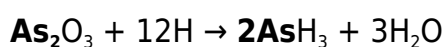
Důkaz Bi^{3+}



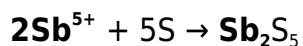
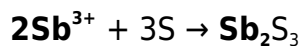
Důkaz As^{3+} , As^{5+}



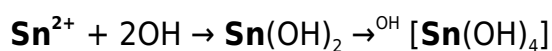
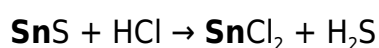
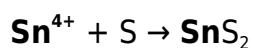
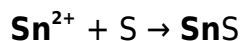
Marsch-Liebigova zkouška

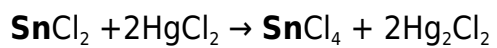


Důkaz Sb^{3+} , Sb^{5+}



Důkaz Sn^{2+} , Sn^{4+}





1. [Stanovení kationtů I. a II. třídy – maturitní otázka](#)
2. [Kvalitativní analýza anorganických látek – chemické postupy](#)
3. [Analytická chemie – test](#)