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| Table 1. Analysis of Single Cations by Six Chemical Methods |
|  | Cations |
| Test Reagent | Ag+ | Pb2+ | Ni2+ | Ba2+ | Fe3+ |
| 1. Conc. NH4OH (NH3) |   |   |   |   |   |
| Products |   |   |   |   |   |
| 2. CrO42- |   |   |   |   |   |
| Products |   |   |   |   |   |
| 3a. SO42- |   |   |   |   |   |
| Products |   |   |   |   |   |
| 3b. Ppt. + H+ |   |   |   |   |   |
| Products |   |   |   |   |   |
| 4a. Cl- |   |   |   |   |   |
| Products |   |   |   |   |   |
| 4b. Ppt. + water + heat |   |   |   |   |   |
| Products |   |   |   |   |   |
| 4c. Super. + CrO42- |   |   |   |   |   |
| Products |   |   |   |   |   |
| 4d. Ppt. + Conc. NH3 (NH4OH) |   |   |   |   |   |
| Products |   |   |   |   |   |
| Test Reagent |   |   |   |   |   |
| 5a. OH- |   |   |   |   |   |
| Products |   |   |   |   |   |
| 5b. Ppt + Conc. NH3 |   |   |   |   |   |
| Products |   |   |   |   |   |
| 6a. OH- |   |   |   |   |   |
| Products |   |   |   |   |   |
| 6b. Ppt. + H+ |   |   |   |   |   |
| Products |   |   |   |   |   |
| c. SCN- |   |   |   |   |   |
| Products |   |   |   |   |   |