

Answer on Question #66701, Chemistry / Inorganic Chemistry

What happens when each inorganic pigments is placed in each of the following solutions?
Details below.

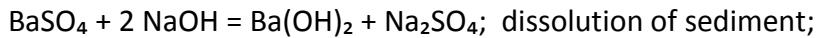
4 Inorganic Pigments: barium white, zinc yellow, chromium oxide green, prussian blue

3 Solutions at room temp: 3M NaOH, 3M HCl, 10% H₂SO₄

Please explain what happens to each pigment in each solution. Maybe even include a chemical equation?

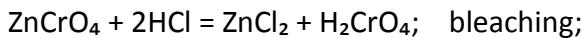
Answer

1. BaSO₄ - barium white :

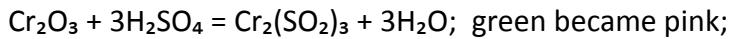
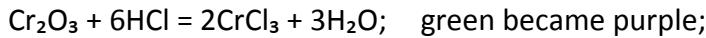


BaSO₄ and H₂SO₄ do not react

2. ZnCrO₄ - zinc yellow:



3. Cr₂O₃ - chromium oxide green:



4. CoO*4Al₂O₃ - prussian blue:

