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C.
To a third test tube, add 25 drops of acetone until a permanent color change occurs. Record observations.

D.
To a fourth test tube, add 5 drops of silver nitrate, $AgNO_3$, one at a time. Gently swirl to mix. Record observations.

8. To the solution remaining in the beaker, add distilled water to get a purple color, about half way between the blue and pink. Place the beaker on a hot plate until a color change occurs. Record observations.

9. Chill the beaker in an ice bath to see if the color change is reversible. Record observations.

Observations:

step 4: Ethanol and cobalt chloride solution is a dark blue color.

step 6: Changed from deep blue to to deep purple, then to pink.

step 7a: Solution turned light blue, then settle to a dark blue at the bottom.

step 7b: Calcium chloride turned a light blue and the solution around it turned a dark blue.

step 7c: Solution turned a dark purple. then turned dark blue, then dark purple.

step 8: Turned a dark blue when heated

step 9: Returned to a pink when chilled.

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Revision #1
Created 2025-11-26 07:58:21 UTC by Admin
Updated 2025-11-26 07:58:21 UTC by Admin