

Identifying anions

Anion	Test	Observation
Carbonate CO_3^{2-}	Add dilute hydrochloric acid.	Bubbles of a colourless, odourless gas formed.
Chloride Cl^-	Add a few drops of dilute nitric acid, then add a few drops of silver nitrate solution.	White precipitate of silver chloride formed. Check: the precipitate should be soluble in dilute ammonia solution.
Sulphate SO_4^{2-}	Add a few drops of dilute hydrochloric acid, then add a few drops of barium chloride solution.	White precipitate of barium sulphate formed.

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