



Organic Chemistry Revision Sheets

Carbonyl (C=O) Tests

Aldehydes

TEST: Heat with **Tollens' Reagent**

RESULT: **Silver mirror** will form



Aldehyde $\longrightarrow$ **Carboxylate Ion**

TEST: Heat with **Fehling's solution**

RESULT: **Brick red** precipitate will form

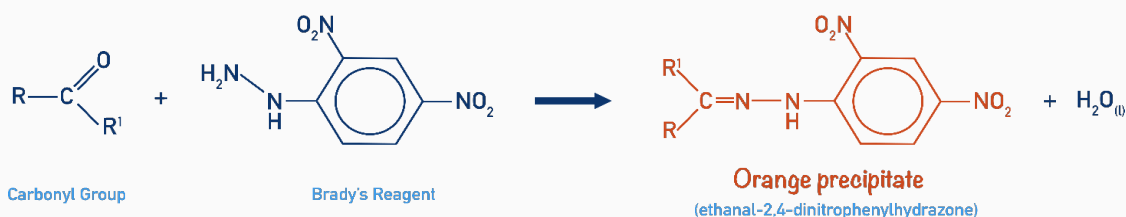


Aldehyde $\longrightarrow$ **Carboxylate Ion**

Carbonyls

TEST: Brady's Reagent (2,4-dinitrophenylhydrazine in dilute acid)

RESULT: **Orange precipitate forms**



Methyl Carbonyl

TEST: Warm solution of iodine and sodium hydroxide

RESULT: Yellow crystals form

