A Grignard reagent is an organomagnesium compound that has the following general structural formula.

\[ R \overset{\text{Mg}}{\longrightarrow} X \]

\( R = \text{alkyl group or aryl group} \)
\( X = \text{halogen atom} \)

eg:

\[ \text{H}_2\text{C} \overset{\text{Mg}}{\longrightarrow} \text{Cl} \]
\[ \text{C}_6\text{H}_5 \overset{\text{Mg}}{\longrightarrow} \text{Br} \]

see also carbanion equivalent

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**Contributors**

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