

18. The presence of a carboxylic acid functional group in an unknown organic compound may be identified by observing a reaction with which of the following?

- (a) $\text{Cr}_2\text{O}_7^{2-}(\text{aq})$
- (b) $\text{Br}_2(\text{aq})$
- (c) $\text{Na}_2\text{SO}_4(\text{s})$
- (d) $\text{Na}_2\text{CO}_3(\text{s})$