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Questions

- 1. What other organic compounds can be oxidized to produce benzoic acid?
- 2. Why is it important that all the permanganate is consumed in this oxidation reaction?
- 3. Potassium permanganate is a very powerful oxidizing agent that will even oxidize carbon–carbon double bonds to diols or carboxylic acids. Why are the double bonds in the benzene ring not attacked?
- 4. Why is this oxidation performed under basic conditions?
- 5. Find three products at the store that contain benzoic acid or sodium benzoate.

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