

EXPERIMENT 7

A Green Synthesis of Camphor
Addition and Sublimation*Preparation and Purification of Solids: Oxidation***Operations**

- OP-8 Cooling
- OP-9 Temperature Monitoring
- OP-11 Addition of Reactants
- OP-29 Sublimation
- OP-4 Weighing
- OP-10 Mixing
- OP-16 Vacuum Filtration
- OP-26 Washing and Drying Solids
- OP-33 Melting Point

Before You Begin

1. Read the experiment and operations OP-8, OP-9, OP-11, and OP-29. Read or review the other operations as necessary.
2. Calculate the mass of 25.0 mmol of isoborneol and the theoretical yield of camphor from that amount of isoborneol.
3. Prepare an experimental plan for the experiment following the directions in Appendix V.

Scenario

The Northern Pines Chemical Company was pleased with your analysis of their column packing material (see Experiment 6), so they have requested your services for another project. One of the many chemicals they manufacture from α -pinene is camphor. The last step in the preparation of camphor from α -pinene is the oxidation of isoborneol, for which Northern Pines currently uses the powerful oxidizing agent chromic acid. But the chromium-containing by-products of this reaction are classified as hazardous wastes and disposing of them properly is very costly, so Northern Pines wants your Consulting Chemists Institute to develop a more environmentally acceptable oxidation process for them to use. In searching the chemical literature, your supervisor came across an article in the *Journal of Chemical Education* that describes the use of common laundry bleach (aqueous sodium hypochlorite) to oxidize a secondary alcohol, cyclohexanol, to a ketone, cyclohexanone.

See *J. Chem. Educ.* 1985, 62, 519.



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MARK A. GRIEP

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