

# TECH 701 – Measuring the Melting Points of Compounds and Mixture

## Final Report Sheet

Name: \_\_\_\_\_ Section: \_\_\_\_\_ Date: \_\_\_\_\_

### Melting *RANGES*

benzoic acid	
Mixture #1	
Mixture #2	
Mixture #3	
Mixture #4	
mandelic acid	
Unknown melting range	
Possible ID #1 (name)	
Possible ID #2 (name)	
Unknown + #1 (melting range)	
Unknown + #2 (melting range)	

Unknown Number: \_\_\_\_\_

Chemical Name of Unknown: \_\_\_\_\_

Chemical Structure of Unknown:

**Post-Laboratory Questions:** On a separate sheet (preferably typed) complete the post-laboratory questions in your laboratory manual. Note that this includes constructing a eutectic melting point curve for your mandelic acid-benzoic acid mixture experiment.

*Show all calculations!*

**Additional Post-Laboratory Question:** Discuss how this technique is used to determine identity, purity, and thermal stability of known and unknown compounds.