

DATA SHEET FOR EXPERIMENT 3

STUDENT NAME _____

Mass of benzil/benzoic acid mixture at start _____

Mass of benzil present at start (50% of above) _____

Mass of benzoic acid present at start (50% of above) _____

Appearance of benzil/benzoic acid mixture at start _____

Observations during dissolving/mixing _____

Flask #3 portion (benzil)

Appearance of ethyl acetate solution after separation _____

Appearance of crude solid benzil _____

Amount of ethanol added for recryst. _____

Amount of water added for recryst. _____

Observations during recrystallization _____

Appearance of purified benzil _____

Mass of purified benzil _____

% Recovery of benzil from start _____

MP of purified benzil _____

Flask #2 portion (benzoic acid)

Appearance of aqueous layer after separation _____

Appearance of aqueous layer after acidification with HCl _____

Appearance of crude benzoic acid (on filter) _____

Amount of water added for recrystallization _____

Observations during recrystallization _____

Appearance of purified benzoic acid _____

Mass of purified benzoic acid _____

% Recovery of benzoic acid from start _____

MP of purified benzoic acid _____