

CHM 2210L - DATA TABLE

PREPARATION OF ACETANILIDE

PHYSICAL PROPERTIES OF REAGENTS AND PRODUCTS

NAME	STRUCTURE AND FORMULA	MOLAR MASS (g/mol)	DENSITY (g/mL)	MELTING POINT (°C)	BOILING POINT (°C)
(1) Aniline					
(2) Acetic anhydride					
(3) conc. Hydrochloric acid (12M)			Solution:	x x x x x	x x x x x
(4) Sodium acetate (trihydrate)			x x x x x		x x x x x
(5) Acetanilide					x x x x x
(6) Acetic acid					

QUANTITIES OF REAGENTS USED - QUANTITIES OF PRODUCTS (THEORETICAL and ACTUAL)

STRUCTURE	VOLUME (mL)	WEIGHT (g)	MOLES (mol)	Check Limiting Reactant
(1)				
(2)				
(3)		Solution: Solute:	Solute:	
(4)	x x x x			
(5)	-----		XXXXXX	ACTUAL
	-----			THEORY
(6)	x x x x x			THEORY

PERCENT YIELD ACETANILIDE: _____

(SHOW ALL CALCULATIONS ON BACK)
(OR ON SEPARATE SHEETS)