

PREPARATION OF BENZOIC ACID via GRIGNARD REACTION

PHYSICAL PROPERTIES OF REAGENTS AND PRODUCTS

NAME	STRUCTURE AND FORMULA	MOLAR MASS (g/mol)	DENSITY (g/mL)	MELTING POINT (°C)	BOILING POINT (°C)
(1) Bromobenzene (Phenyl bromide)					
(2) Magnesium					XXXXXX
(3) Carbon dioxide (Solid, Dry Ice)			Solid: 1.35	Sublimes	at -78.48°C
(4) Benzoic Acid					XXXXXX
(5) Benzene (hydrolysis)					
(6) Biphenyl (coupling reaction)					XXXXXX

QUANTITIES OF REAGENTS USED AND PRODUCTS FORMED (THEORETICAL, ACTUAL)

STRUCTURAL FORMULA	VOLUME (mL)	WEIGHT (g)	MOLES (mol)	
(1)				
(2)	XXXXXX-			
(3)	XXXXXX			
(4)	XXXXXX		XXXXXX	ACTUAL
	XXXXXX			THEORY

PERCENT YIELD: _____

(SHOW ALL CALCULATIONS ON BACK)
OR ON A SEPARATE SHEET)