

CHM 2211L - DATA TABLE
ALKYLATION OF *meta*-XYLENE WITH *tert*-BUTYL CHLORIDE

PHYSICAL PROPERTIES OF REAGENTS AND PRODUCTS

NAME	STRUCTURE and FORMULA	MOLAR MASS (g/mol)	DENSITY (g/mL)	MELTING POINT (°C)	BOILING POINT (°C)
(1) <i>meta</i> -XYLENE					
(2) <i>tert</i> -BUTYL CHLORIDE					
(3) FERRIC CHLORIDE (Catalyst)			XXXXXX	XXXXXX	XXXXXX
(4) THREE POSSIBLE TRISUBSTITUTED ALKYLATION PRODUCTS			XXXXXX	XXXXXX	XXXXXX
(5) Hydrogen Chloride (gas)				XXXXXX	XXXXXX

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

STRUCTURE	VOLUME (mL)	WEIGHT (g)	MOLES (mol)	(mark limiting reactant)
(1)				
(2)				
(4) Postulated identity	XXXXX			Actual Yield
	XXXXX			Theoretical Yield
(5) Hydrogen Chloride (gas)	at STP			Theoretical Yield

PERCENT YIELD: _____

(Show all calculations on back or on separate sheet)