Chemistry Formula Sheet

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CHAPTER 28

Carboxylic Acids and Their Derivatives

Carboxylic acids

ACIDITY

$$\mathrm{FCH_2COOH > ClCH_2COOH > HCOOH > C_6H_5COOH > CH_3COOH}$$

HVZ

$$\mathrm{RCH_2COOH \xrightarrow{X_2,\ red\ P} RCHXCOOH}$$

DECARBOXYLATION

$$\mathrm{RCOONa \xrightarrow{NaOH/CaO} RH}$$

Acid derivatives

REACTIVITY TO NUCLEOPHILES

$$\mathrm{acid\ chloride > anhydride > ester > amide}$$

$$\mathrm{esterification:\ RCOOH + R'OH \overset{H^+}{\rightleftharpoons} RCOOR' + H_2O}$$

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