

PREPARATION OF ISOAMYL ACETATE

PHYSICAL PROPERTIES OF REAGENTS AND PRODUCTS

| NAME | STRUCTURAL AND FORMULA | MOLAR MASS (g/mol) | DENSITY (g/mL) | MELTING POINT (°C) | BOILING POINT (°C) |
|---|------------------------|-----------------------|-------------------|-----------------------|-----------------------|
| (1) Acetic acid | | | | | |
| (2) Isoamyl Alcohol (3-Methyl-1-butanol) | | | | | |
| (3) conc. sulfuric acid (<i>catalyst</i>) | | | | XXXXXX | XXXXXX |
| (4) Isoamyl acetate (3-Methyl-1-butyl Ethanoate) | | | | | |
| (5) Water | | | | | |

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

| STRUCTURAL FORMULA | VOLUME (mL) | WEIGHT (g) | MOLES (mol) | Check Limiting Reactant |
|--------------------|----------------|---------------|----------------|-------------------------|
| (1) | | | | |
| (2) | | | | |
| (4) | XXXXXX | | XXXXXX | ACTUAL |
| | XXXXXX | | | THEORY |
| (5) | | | XXXXXX | ACTUAL |
| | | | | THEORY |

PERCENT YIELD ESTER: _____

PERCENT YIELD WATER: _____

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