

Expt 5 - Cyclohexane-Toluene Fractional Distillation with GLC and η

| | vol (mL) | % recov | bp (°C) | | η | | GLC | | | | | GLC corr % recov | |
|-------------|----------|---------|--------------|------|--------|------|-----|-----|-----|-----|-----|------------------|-----|
| | | | expt (range) | theo | expt | theo | RT | % 1 | % 2 | g | % 3 | | |
| mixture | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| distillate | | | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| fraction a | | | | --- | | --- | | | | | | | |
| | | | | | | | | | | | | | |
| fraction b | | | | --- | | --- | | | | | | | |
| | | | | | | | | | | | | | |
| fraction c | | | | --- | | --- | | | | | | | |
| | | | | | | | | | | | | | |
| cyclohexane | --- | --- | --- | | --- | | | --- | --- | --- | --- | --- | --- |
| toluene | --- | --- | --- | | --- | | | --- | --- | --- | --- | --- | --- |

% 1 = GLC report percentage

% 2 = GLC calculated percentage ($h * w_{\frac{1}{2}h}$)

% 3 = GLC weight percentage

Expt 6 - Unknown Mixture Fractional Distillation with GLC and η

| | vol (mL) | % recov | bp (°C) | | η | | GLC | | | | | GLC corr % recov | unk ID |
|------------|----------|---------|--------------|------|--------|------|-----|-----|-----|-----|-----|------------------|--------|
| | | | expt (range) | theo | expt | theo | RT | % 1 | % 2 | g | % 3 | | |
| mixture | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| distillate | | | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| fraction a | | | | --- | | --- | | | | | | | |
| | | | | | | | | | | | | | |
| fraction b | | | | --- | | --- | | | | | | | |
| | | | | | | | | | | | | | |
| fraction c | | | | --- | | --- | | | | | | | |
| | | | | | | | | | | | | | |
| "name # 1" | --- | --- | --- | | --- | | | --- | --- | --- | --- | --- | --- |
| "name # 2" | --- | --- | --- | | --- | | | --- | --- | --- | --- | --- | --- |
| "name # 3" | --- | --- | --- | | --- | | | --- | --- | --- | --- | --- | --- |
| "name # 4" | --- | --- | --- | | --- | | | --- | --- | --- | --- | --- | --- |
| "name # 5" | --- | --- | --- | | --- | | | --- | --- | --- | --- | --- | --- |
| "name # 6" | --- | --- | --- | | --- | | | --- | --- | --- | --- | --- | --- |
| "name # 7" | --- | --- | --- | | --- | | | --- | --- | --- | --- | --- | --- |

% 1 = GLC report percentage

% 2 = GLC calculated percentage ($h * w_{\frac{1}{2}h}$)

% 3 = GLC weight percentage