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2.3 Una corriente que contiene:

H ₂ O	0.4
C ₂ H ₅ OH	0.3
CH ₃ OH	0.1
CH ₃ COOH	0.2

en fracciones en masa, se alimenta a una columna de destilación a razón de 1000 lb/h. Convierta estas variables de las corrientes a:

- Flujos molares por componente.
- Flujo molar total y fracciones molares.
- Fracciones molares, en base libre de agua.

SOLUCION:

a. Flujos molares por componente.

Hallando el flujo másico de cada componente y pasándolo a moles, se plantean las siguientes expresiones (obsérvese que en este cálculo se muestran las unidades de las fracciones másicas) que dan los valores pedidos:

$$N_{\text{H}_2\text{O}} = 0.4 \frac{\text{lb H}_2\text{O}}{\text{lb mezcla}} \times 1000 \frac{\text{lb mezcla}}{\text{h}} \times \frac{1 \text{ lbmol}}{18 \text{ lb H}_2\text{O}} = 22.2222 \frac{\text{lbmol}}{\text{h}}$$

$$N_{\text{C}_2\text{H}_5\text{OH}} = 0.3 \frac{\text{lb C}_2\text{H}_5\text{OH}}{\text{lb mezcla}} \times 1000 \frac{\text{lb mezcla}}{\text{h}} \times \frac{1 \text{ lbmol}}{46 \text{ lb C}_2\text{H}_5\text{OH}} = 6.5217 \frac{\text{lbmol}}{\text{h}}$$

$$N_{\text{CH}_3\text{OH}} = 0.1 \frac{\text{lb CH}_3\text{OH}}{\text{lb mezcla}} \times 1000 \frac{\text{lb mezcla}}{\text{h}} \times \frac{1 \text{ lbmol}}{32 \text{ lb CH}_3\text{OH}} = 3.125 \frac{\text{lbmol}}{\text{h}}$$

$$N_{\text{CH}_3\text{COOH}} = 0.2 \frac{\text{lb CH}_3\text{COOH}}{\text{lb mezcla}} \times 1000 \frac{\text{lb mezcla}}{\text{h}} \times \frac{1 \text{ lbmol}}{60 \text{ lb CH}_3\text{COOH}} = 3.333 \frac{\text{lbmol}}{\text{h}}$$



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