

Exercice 1

- a) $X_{\text{ethanol}} = 0.13$, $X_{\text{eau}} = 0.87$,
- b) 5.84 M
- c) 8.44 m

Exercice 2

- a) 0.134 g
- b) 15.96 g

Exercice 3

- a) $2,24 \cdot 10^{-6} \text{ mol L}^{-1}$
- b) $2,24 \cdot 10^{-6} \text{ mol L}^{-1}$
- c) $4,5 \cdot 10^{-15} \text{ mol L}^{-1}$
- d) $1,06 \cdot 10^{-8} \text{ mol L}^{-1}$

Exercice 4

- a) 125.9 g mol^{-1} , C_{10}H_8
- b) 122.9 mmHg (0.164 bar)
- c) 80.55°C

Exercice 5

- a) 26 atm
- b) $x_{\text{NaCl}} = 9.64 \times 10^{-3}$

Exercice 6

180 g mol^{-1}

Exercice 7

$T_{\text{eb}} = 105.5^\circ\text{C}$

Exercice 8

- a) 0.3 M CaCl_2
 - b) 2.48 bar
- flux net de molécules d'eau vers l'eau de mer

Exercice 9 : V, V, F, V

Exercice 10 : V, F, F, V

Exercice 11 : V, V, F, V

