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 $N = \frac{V}{RT} \times 18 \text{ mol} \times 8.314 \times 10^{-5} \text{ (bar m}^3 \text{ mol}^{-1} \text{ K}^{-1})$
 $T = P = \frac{V}{V} \times 10^{-3} - (10 - x) \times 10^6$ volume taken up by liquid
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