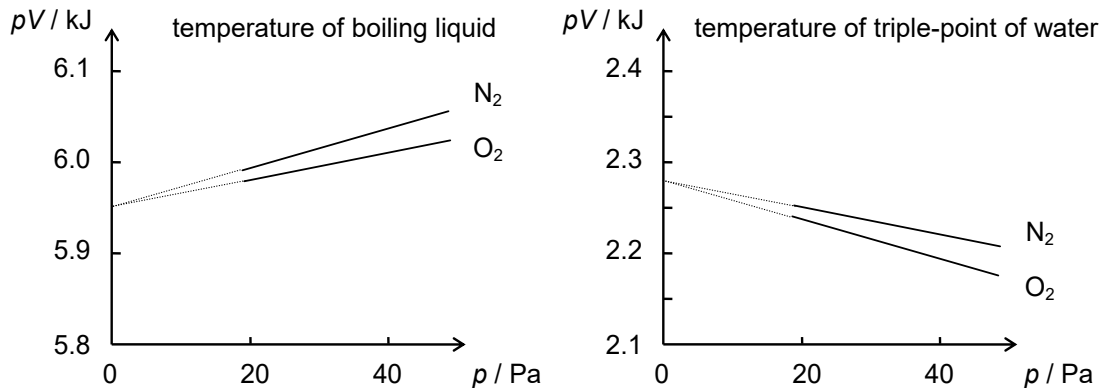


- 14** The graphs below show how pV varies with p , for a sample of nitrogen gas and oxygen gas at the temperature of a boiling liquid and at the temperature of the triple point of water in a constant volume gas thermometer.



Which of the following is the probable thermodynamic temperature of the boiling liquid?

- A** 2.6 K **B** 13.5 K **C** 373 K **D** 714 K

- 15** A particle of a mass of 0.0 g undergoes simple harmonic motion. The graph below shows the