

Chemical Engineering Thermodynamics Objective Questions

Question: 1

Free energy change at equilibrium is

- (A) indeterminate
- (B) positive
- (C) negative
- (D) zero

Ans: D

zero

Question: 2

The unit of fugacity is the same as that of the

- (A) molar concentration
- (B) volume
- (C) temperature
- (D) pressure

Ans: D

pressure

Question: 3

For an ideal gas the slope of the pressure volume curve, at a given point will be

- (A) identical for both the processes
- (B) of opposite signs

(C) steeper for an isothermal than for an adiabatic process

(D) steeper for an adiabatic than for an isothermal process

Ans: D

steeper for an adiabatic than for an isothermal process

Question: 4

Reduced pressure of a gas is the ratio of its

(A) pseudocritical pressure to pressure

(B) pressure to pseudocritical pressure

(C) critical pressure to pressure

(D) pressure to critical pressure

Ans: D

pressure to critical pressure

Question: 5

Partial molal quantities are important in the study of

(A) a pure component

(B) non-ideal mixtures

(C) ideal gas

(D) ideal solutions

Ans: B

non-ideal mixtures