

8. Given the following data for a fluid, what is its state at 40°C ad 3 kPa?

Saturated property table

| T, °C | P, kPa | v_f , m ³ /kg | v_g , m ³ /kg | s_f , kJ/kg | s_g , kJ/kg | s_{fg} , kJ/kg · °K | s_{fg} , kJ/kg · °K |
|-------|--------|----------------------------|----------------------------|---------------|---------------|-----------------------|-----------------------|
| 40 | 7.38 | .001008 | 19.52 | 167.57 | 2574.3 | .5725 | 8.257 |
| 80 | 47.39 | .001029 | 3.407 | 334.9 | 2643.7 | 1.1343 | 7.5445 |
| 120 | 198.5 | .001060 | .8919 | 503.71 | 2706.3 | 1.5276 | 7.1206 |

- (A) Saturated liquid
- (B) Superheated vapor
- (C) Compressed liquid
- (D) Saturated vapor

9. Using the same data of Problem 8, what is the fluid's entropy in kJ/(kgK) at 120°C and 80% quality?

- (A) 1.53
- (B) 6.009
- (C) 7.13
- (D) 28.8

10. A quantity of 55 m³ of water passes through a heat exchanger and absorbs 2,800,000 kJ. The exit temperature is 95°C. The entrance water temperature in °C is nearest to:

- (A) 49
- (B) 56
- (C) 68
- (D) 83

11. In any non-quasistatic thermodynamic process, the overall entropy of an isolated system will:

- (A) Increase and then decrease
- (B) Decrease and then increase
- (C) Stay the same
- (D) Increase only

12. The temperature-entropy diagram in the figure represents a:

- (A) Rankine cycle with superheated vapor
- (B) Carnot cycle
- (C) Diesel cycle
- (D) Refrigeration cycle



13. Ethane is burned in 150% theoretical air. Assume complete combustion and that the process takes place in atmospheric air. The air/fuel ratio in 150% theoretical air is most nearly:

- (A) 32 kg air/kg fuel
- (B) 28 kg air/kg fuel
- (C) 24 kg air/kg fuel
- (D) 16 kg air/kg fuel

14. There are 3 kg of air in a rigid container at 250 kPa and 50°C. The gas constant for air is 0.287 kJ/(kgK). The volume of the container, in m³, is nearest to:

- (A) 2.2
- (B) 1.1
- (C) 2.8
- (D) 3.1

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