

Chapter Thermodynamic

Key

- 1.B
- 2.B
- 3.E
- 4.C
- 5.D
- 6.B
- 7.B
- 8.A
- 9.C
- 10.C
- 11.A
- 12.E
- 13.B
- 14.D
- 15.A
- 16.E
- 17.D
- 18.E
- 19.B
- 20.E
- 21.D
- 22.E
- 23.E
- 24.C
- 25.B
- 26.B

27.A

28.D

29.C

30.D

31.A

32.A

33.B

34.C

35.E

36.C

37.A

38.B

39.E

40.D

41.A

42.C

43.D

44.B

45.E

46.A

47. No

48. 3.11×10^{-4}

49. -1.02 kJ/mol

50. 1.17

51. No

52. 1.58×10^{-6}

53. -46.66 kJ/mol

54. 1.11×10^3

55. 710°C

56. $71.9 \text{ J/K}\cdot\text{mol}$

57. $K_p = 7.1 \times 10^{-9}$

58. Positive

59. Positive

60. Negative
61. 639 kJ/mol
62. No
63. 2,100 K
64. 110. J/K·mol
65. -349 kJ/mol
66. 2160 K
67. 3.4×10^{-3}
68. 29.4 kJ/mol
69. right to left
70. -35.2 kJ/mol
71. left to right
72. -29.0 kJ/mol
73. 1.21×10^5
74. 131 J/K·mol
75. -123 kJ/mol
76. No
77. increases
78. increases
79. increases
80. decreases
81. $\text{O}_2(\text{g})$ at 0.5 atm
82. $\text{Br}_2(\text{g})$
83. 1 mole of $\text{N}_2(\text{g})$ in a 22.4 L container
84. $\text{CO}_2(\text{g})$
85. -110 J/K·mol
86. 115°C
87. -9.48 kJ/mol
88. FALSE
89. FALSE
90. FALSE