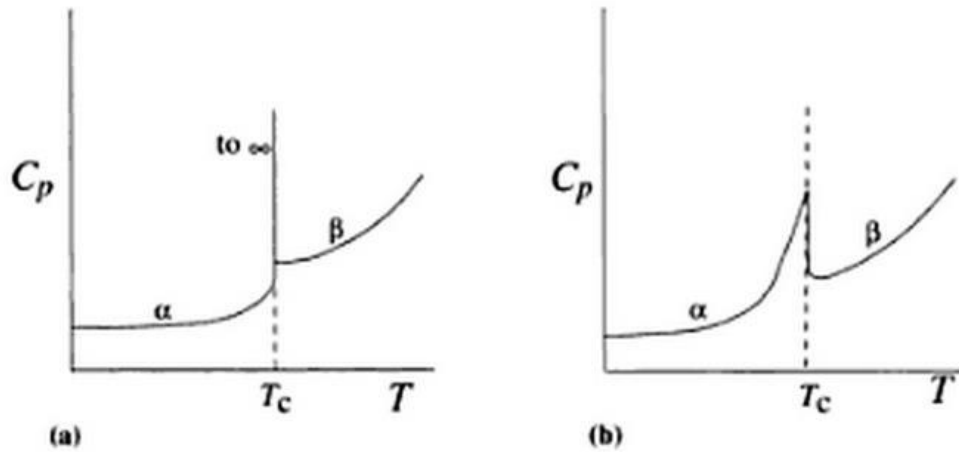


Answer on Question#39914, Physics, Molecular Physics

Plot temperature variation of heat capacity for first order and second order phase transitions.

Answer:



a) *First order phase transition.*

The infinite value of heat capacity at the first order phase transition corresponds to the fact that a nonzero amount of heat produces a change in the temperature as one phase is converted to the other.

b) *Second order phase transition.*

Heat capacity at second order phase transition doesn't become infinite, although it has discontinuity in the figure.