

θ state

in polymers

The state of a polymer solution for which the second virial coefficient is zero.

Notes:

1. In some respects, a polymer solution in the θ state resembles an ideal solution and the θ state may be referred to as a pseudo-ideal state. However, a solution in the θ state must not be identified with an ideal solution.
2. The solvent involved is often referred to as ' θ solvent'.
3. It is assumed that the molar mass of the polymer is high.

Source:

Purple Book, p. 57