

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.

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