

# Review of: "Analysis method of binary concentration-inhomogeneous systems"

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The present manuscript proposes a method for the analysis of the concentrations inhomogeneity that occur in the binary system polymer – monomer during the process of radical bulk polymerization. The method uses the dependence of the heat capacity on temperature. The manuscript deserves to be published. However, before publication, the following minor observations should be taken into consideration:

- For the data plotted in figure 1, it would be useful to mention the relation between  $x_1$  and  $x_3$ , i.e.  $x_1 < x_3$  or  $x_1 > x_3$ ;
- The author states that the dependence heat capacity versus concentration for a homogeneous system at constant temperature is essentially non-linear; this is not obvious from figure 1, my opinion;
- There is no consistency in the usage of concentrations; for example, for relation (1), the mass fraction is  $m_{(2)}$ ; in the definition of  $M(x)$  the mass fraction is  $x$ ;
- An example of calculus for equation (2) should be very useful.