Dear Jasna Djonlagic

Polymers Sub Editor

Journal of the Serbian Chemical Society

 Submission of Revised Manuscript (Ref. ID: **#6743**)

Dear Jasna Djonlagic

With reference to your email regarding the manuscript Ref. ID**: #6743** entitled “**Ionic-Interaction of Aqueous and Alcoholic Poly (vinyl alcohol) in presence of Protons**”. I have revised the manuscript and incorporated all the changes suggested by the reviewers. The following corrections have been made:

Reviewer A:

1. Lines 59-61, Weight/volume percent concentration of PVOH is represented as a number of grams of solute dissolved in 100 mL of solution as suggested.
2. Line 64-66, 5% (v/v) alcoholic medium (5% (v/v) Methanol, 5% (v/v) Ethanol, 5% (v/v) 2-Propanol and 5% (v/v) 1-Butanol) were prepared by vol/vol % and are clearly mentioned in text.
3. Lines 91-93, The densities of the PVOH-solvent systems at different temperatures ranges from 305K to 323K are tabulated in table I as suggested.
4. Lines 112-114, The viscosities of the PVOH-solvent systems at different temperatures ranges from 305K to 323K are tabulated in table II as suggested.
5. Lines 121-123, Correction is made the sentence. “A representative graph showing the effect of concentration of acetic acid on viscosities of 0.1% (w/v) and 0.5% (w/v) polyvinyl alcohol (PVOH) in 5% (v/v) Ethanol at 305K is shown in Figure 1.”
6. The SI unit of viscosity is reported in Table II and Figure 1 as suggested.
7. Lines 132-134, The results of viscosities are now reported for all temperatures ranges from 305K to 323K table II.
8. Lines 160-161, “Water-PVOH ----------- interaction of acid with PVOH” is corrected as “The increase in interaction of acid --------------- water-PVOH system”. As the supramolecular structure of the PVOH-solvent system was degraded by the addition of acetic acid.
9. Lines 165-167, Figure 2 is representing the viscosities in different solvents and temperatures. The effect of concentration of acetic acid on the viscosities of PVOH-solvent system is given in Table II.
10. Lines 196-207, “The results show that the ion-ion interactions ------------------ and also increased with alcohol content.” is rewritten as “The values of A and B-coefficients ----------------------------2-propanol and 1-butanol.” and the explanation is given in the text.
11. Lines 196-207, “The ion-solvent interactions increased --------------------of polyvinyl alcohol and alcohol content.” is already explained in Lines 194-205
12. Lines 215-217, “The negative values of B confirm that --------------------------- polymer in different alcohol solvents.” “de-polymerization” is replaced by “degradation of supramolecular structure of PVOH-solvent system” as suggested.
13. Lines 231-240, The positive values of energy of activation obtained and representative Figure 5 is corrected as suggested and explanation is given in the text.
14. Lines 230-233. The relation used for molar volume Vm is now reported and explained in the text.

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Reviewer B:

1. Page 3 line 60. Unit of molar mass of PVOH is (g/mol) is given as suggested.
2. Page 7 line 134-135. “Molecular structure” is replaced by “supra molecular structure”.
3. Page 8 line 160. ''Water-PVOH system in presence of acidic medium gets depolymerize easily due to more interaction of acid with PVOH'' is rewritten as “The increase in interaction of acid with PVOH degraded the supramolecular structure of Water-PVOH system.”
4. Page 11, In Figure 3, y-axis is now started from 2.5 as suggested.
5. Page 16, The effect of alcohol on viscosity is now included in the conclusion as suggested.
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Reviewer C:

REPORT:
6. Lines 72 and 81, Density and viscosity relations are given in experimental section as eq (1) and eq (2) respectively.
7. Lines 60, The weight average molecular mass of PVOH is reported with unit (g/mol) as suggested.
8. The degree of hydrolysis of PVOH was not calculated.
9. Page 6 and 8, The mean and std. dev. values is now reported in foot note of table I, and table II.
10. “…polyvinyl alcohol…” or “…poly vinyl alcohol” is corrected as “poly (vinyl alcohol)” in the text as suggested.
11. Lines 74. “Oswald viscometer type” is corrected as “Ostwald viscometer type”, Lines 97 and 130. “Van Dar Waals” or “Vander walls” is corrected as “van der Waals”.
12. The error bars are mentioned in Figures 1-3 as suggested.

I am looking forward to hear from you.

Thanks

With Best Regards

Saima Naz

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