



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_21416
Title of the Manuscript:	Densities and viscosities of Binary Mixtures of Polyvinyl Pyrrolidone and Water at Temperatures (288.15 to 313.15) K
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>1. "Line 67, The kinetic energy term in eq. 1, (L/t), is an important term in viscosity calculations if the liquid is moving fast (t is small),but if the flow is slow (t is large), the kinetic energy term, which is proportional to (1/t),can be ignored." I need to know:</p> <p>(1) Are L and k dimensionless?</p> <p>(2) If L is small enough, can you neglect (L/t) for t is small ? At the same time, L and t are correspondingly large enough, (L/t) can be neglected ?</p> <p>2. " Line 118, Why do you determine Eq. (2) as your main target for your study?"</p> <p>3. In Table 5, which one of the regression equation is prefer to use for your decision? Is the R-square the only one parameter for you to judge and determine your results?</p>	<p>Please,</p> <p>A₍₁₎ K and L in equation 2 have dimensions. $\text{CP.g}^{-1}.\text{ml}.\text{sec}^{-1}$ and $\text{CP}.\text{sec}.\text{g}^{-1}.\text{ml}$ are dimensions of K and L, respectively.</p> <p>A₍₂₎ In the event that $kt \propto \frac{L}{t}$ from $\frac{L}{t}$ against kt can be ignoring that it is for some of polymers mixture but for dilute solutions similar to salts solution can not ignore from $\frac{L}{t}$ against kt.</p> <p>A₂ Because compression factor of fluids has direct correlation with intermolecular forces. In this work, our aim is study intermolecular forces of polyvinyl pyrrolidone + Water mixture.</p> <p>A₃ After comparison results with experimental data then cure fit equation can help us for calculation and derivation other quantities.</p>
Minor REVISION comments		
Optional/General comments		