

### Review Form 3

Journal Name:	<a href="#">International Research Journal of Pure and Applied Chemistry</a>
Manuscript Number:	Ms_IRJPAC_124414
Title of the Manuscript:	Combination of ionic conductivity and pH-metry methods for the determination of the aqueous solubility of a new diisopropylammonium hydrogenmaleate crystalline molecule
Type of the Article	

#### **PART 1:** Review Comments

<b>Compulsory</b> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The use of both ionic conductivity and pH-metry to find out how diisopropylammonium hydrogenmaleate solid molecules dissolve in water is a big step forward in solubility research and will help scientists in many ways. This two-step method is needed to fully grasp how ionizable compounds dissolve, especially those utilized in medicines, material science, and chemical engineering.	
Is the title of the article suitable? (If not please suggest an alternative title)	A novel method for combination of ionic conductivity and pH-metry methods for the determination of the aqueous solubility of a new diisopropylammonium hydrogenmaleate crystalline molecule	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The implication of the experiment should also be mentioned with respect to its impact and usability in similar likelihood scenarios.	
Are subsections and structure of the manuscript appropriate?	yes	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The study used conductimetric and pH-metric methods to find out the pKa, solubility, and thermal properties of iPr <sub>2</sub> NH <sub>2</sub> -MA, a new solid molecule. The molecule's amphoteric nature was proven by a pH-metric measurement. The molecule broke apart on its own, it was endothermic, and it was a good thing that the stability went down with temperature. This study shows that it is possible to make and test potential active medicine ingredients without spending a lot of money.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :	The references seem sufficient.	

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Minor REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	Some restructurings of the sentences are suggested specially in the introduction and conclusion section. Some corrections may be needed to make the theme look more meaningful from reader perspective.	
<b>Optional/General</b> comments		

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### **Reviewer Details:**

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