

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Chemical Sciences</a>
Manuscript Number:	Ms_AJOCS_126926
Title of the Manuscript:	Improved solubilization of the insecticide phosalone in anionic and cationic aqueous media by the conductometric method
Type of the Article	Original Research Article

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

#### **Important Policies Regarding Peer Review**

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

## Review Form 3

### PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
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.	In scientific point of view, the title is quite impressive. The pollutants like insecticide phosalone to check the solubilization is very important in environmental aspects. However, some questions need to be clarified and major essential revisions have to be made to this paper before it can be accepted for publication.	
Is the title of the article suitable? (If not please suggest an alternative title)	Instead of using conductometric method, authors can use analytical methods, since in the manuscript the authors use surface tension measurement also.	
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.	In the abstract, when surfactant is used, should mention their name in the beginning itself. While using abbreviation like cmc, should used either upper or lower case and units for temperature either Celsius or kelvin, and superscript wherever its necessary throughout the whole manuscript.	
Are subsections and structure of the manuscript appropriate?	The chemical structure presented in fig 1, thickness of bond line should increase. For conclusion, there is a need of section 4, with lowercase.	
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.	What is the significance of higher value of $\Delta H^\circ$ ? Why the author choose particularly 301 K for the effect of phosalone on the cmc? $\Delta H^\circ$ and $\Delta S^\circ$ how it can be obtained and from where, this need to be incorporated in section 3.2. For surface tension part, the adopted similar literature can be cite.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	In section 3.1, there is a need of citation in the adopted literature. Following reference may be helpful. <a href="https://doi.org/10.1016/j.molliq.2023.123807">https://doi.org/10.1016/j.molliq.2023.123807</a> . For citing reference, should used Mendeley or Zotero.	
Minor REVISION comments  Is the language/English quality of the article suitable for scholarly communications?	No need of repetition of full form of CMC again and again. Phosalone concentration unit is not mentioned in table 2. In fig 2, which one of surfactant is A and B? Please incorporate page number, one of the most important point for reviewing. Make and model no. of the instrument used. Alignment are not proper in table, as well as in equation number, either used numerical or roman number. Knot values is uniform, placed proper one throughout the manuscript. Please check micellisation spelling, its not correct.  KJ mol <sup>-1</sup> need to change to kJmol <sup>-1</sup> , lower case of k is used.	
Optional/General comments	While maintaining the temperature values, the temperature is normally not fixed, it varies, should used 273.15 likewise for scientific calculations.	

### PART 2:

	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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

### Reviewer Details:

Name:	Amlanjyoti Gogoi
Department, University & Country	NIT, Mizoram, India