

The manuscript is well written. The introduction, mathematical models, materials and method, and results section are appropriate and present clarity. Moisture sorption isotherm of Kilishi has been determined at three temperatures and fitted to GAB model. The isosteric heat of sorption has also been evaluated. In this, most obvious things have been proved. Their applicability in finding the critical parameters for storage stability, package design... are only said but the results are not applied anywhere.

The authors are advised to determine the equilibrium moisture content during both adsorption and desorption. The authors will therefore have to discuss whether there was any hysteresis effect present or not using standard statistical concepts. Further, there are some relevant references are to be included which would complete the discussion and overall quality of the paper. The paper needs to be modified and some applications of the results have to be included.

I think to finalize the study on kinetics of drying of this product before to include some applications. Modeling of kinetics of drying requires in particular the knowledge of the sorption isotherms.

More detailed recommendations are presented below.

Abstract

- 1- Delete the sentences “Kilishi is a in sub-Saharan African countries.” and insert in introduction

Sentences “Kilishi is a in sub-Saharan African countries.” Deleted and insert in introduction

- 2- “determined” instead of “found” before “at 30, 40 and 50°C...”

This change is done

- 3- Delete “of” after “by using...”

This change is done

Introduction

- 4- Line 22: delete “tropical”

This change is done

- 5- Line 34: "... the equilibrium water content X_{eq} of a product ..." instead of "... the water content X_{eq} of a product in equilibrium..."

This change is done

- 6- Line 39: separate " X_{eq} " and "is"

This change is done

- 7- Line 51-52: delete the sentence "This paper of Kilishi."

This change is done

- 8- Line 53-54: delete the sentence

This change is done

- 9- Line 55-56: insert in the preceding paragraph

This change is done

- 10- Put in evidence the objective and the originality of this study.

I put objective and originality of this study at the end of introduction

Mathematical models

- 11- Line 63-64: explain this sentence "Nevertheless, ... physical interpretation."

This sentence was reformulated

GAB model

- 12- Line 81: well write the formula (2)

I do it

- 13- Line 84: delete "where"

This change is done

Isosteric sorption heat

- 14- Line 102: insert "who" after "A heat..."

This change is done

Sorption method

- 15- Line 125: well write the references

I do it

Experimental process

- 16- Line 133: separate "by" and "Biot"

I do it

Results and discussion

17- Line 202: separate “parameters” and “ X_m ”

I do it

18- Line 226: separate “isosters” and “ $\ln(a_w)$ ”

I do it