

Moisture Sorption Practical Aspects Isotherm

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Bell LN, Labuza TP (2000) Moisture sorption: practical aspects of isotherm measurement and use, 2nd edn. American Association of Cereal Chemists, St. Paul, MN Google Scholar Benedetti PDCD, Pedro MAM, Telis-Romero J, Telis VRN (2011) Influence of encapsulating materials on water sorption isotherms of vacuum-dried persimmon pulp powder.

~~Moisture Sorption Isotherms of Foods: Experimental ...~~

water activities and different sorption histories. The boundary isotherm with a 0.80 aw maximum experienced a phase change at 0.43 aw, indicated by a sharp inflection point in the curve. The desorption curve for this isotherm appears to show hysteresis, especially below a water activity of 0.60. However, an isotherm, run on a

~~Fundamentals of Moisture Sorption Isotherms~~

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At equilibrium, the relationship between water content and equilibrium relative humidity of a material can be displayed graphically by a curve, the so-called moisture sorption isotherm. For each humidity value, a sorption isotherm indicates the corresponding water content value at a given, constant temperature. If the composition or quality of the material changes, then its sorption behaviour ...

~~Moisture sorption isotherm - Wikipedia~~

Sorption isotherms modeling approach of rice-based instant. Journal of Applied Polymer Science Volume 84, Issue 6, pages 1193–1202, 9 May 2002 19 5) Bell Leonard N., Labuza (2001) Moisture sorption: practical aspects of isotherm measurement and use (2nd Ed.)

~~Moisture sorption practical aspects of isotherm ...~~

Among the sorption isotherm models chosen to fit isotherm data, Models 1 (modified Freundlich) described better the working, desorption and adsorption isotherms (0.06–0.76 water activity). The isosteric heat of sorption of IMC banana decreased with an increase in moisture content and was found to be an exponential function of moisture content.

~~Sorption isotherms and moisture sorption hysteresis of ...~~

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Sorption isotherm of a product describes its ability to adsorb or release water vapor from or into the surrounding atmosphere until an equilibrium state is reached. Yellow dent corn with an initial moisture content of 12.79 kg water/kg dry matter and 0.698 water activity will be used in this experiment.

~~Sorption Phenomena in Foods - Determining Sorption ...~~

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Moisture sorption characteristics of agricultural and food products play important roles in such technological processes as drying, handling, packaging, storage, mixing, freeze-drying and other processes that require the prediction of food stability, shelf life, glass transition and estimation of drying time and texture and prevention of deteriorative reactions. They are useful in the ...

~~Moisture Sorption Isotherms and Isotherm Model Performance ...~~

These high resolution moisture sorption isotherms make it possible to model and engineer food products in ways not previously possible. The rewards are products that maximise safety, quality, and profitability. References. 1. Bell, L.N., and T.P. Labuza. 2000. Moisture sorption: practical aspects. of isotherm measurement and use.

~~Moisture Sorption Isotherms in food engineering Food NZ~~

A moisture sorption isotherm (MSI) equation mathematically describes the relationship between water activity (a_w) and the equilibrium moisture content of a food product (Iglesias et al. 1986). MSIs are used for defining mixing formulations, storage conditions, drying operations and in making shelf-life determinations.

~~(PDF) WATER ACTIVITY AND MOISTURE SORPTION ISOTHERMS OF ...~~

high resolution moisture sorption isotherms make it possible to model and engineer food products in ways not previously possible. The rewards are products that maximise safety, quality, and profitability. References 1. Bell, L.N., and T.P. Labuza. 2000. Moisture sorption: practical aspects of isotherm measurement and use. American Association ...

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~~Using Moisture sorption isotherms in food engineering~~

Moisture Sorption: Practical Aspects of..., 2nd Edition This manual demonstrates how moisture sorption isotherms are created and how they can be used to solve real-world problems. Item No. 27187

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This study aimed to evaluate moisture sorption isotherm of whole chia seed. The equilibrium moisture content (EMC) of seeds were detected by saturated salt solutions which have the water activity (a_w) range of 0.2-0.9. The isosteric sorption heat was calculated by the Clausius-Clapeyron equation using three different sorption temperatures (15 °C, 25 °C and 35 °C).

~~Moisture sorption isotherm, isosteric heat and adsorption ...~~

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T. P. Labuza: Moisture Sorption: Practical Aspects of Isotherm Measurement and Use. 150 Seiten, 36 Abb. American Association of Cereal Chemists, St. Paul, Minnesota 1984.

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