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## **Moisture Sorption Practical Aspects Isotherm**

It demonstrates how moisture sorption isotherms are created and how they are used to solve real-world problems such as the change in rate of moisture gain for individual packaged products over time, or the amount of sugar needed to lower the water activity of a

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product to make it  
shelf stable.

## **Moisture Sorption: Practical Aspects of Isotherm ...**

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.

**T. P. Labuza:  
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## **Moisture Sorption Practical Aspects Isotherm**

Moisture Content

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additional function of the isotherm is moisture content prediction. Since both water activity and moisture content are needed in certain situations, it is advantageous to measure both simultaneously. In addition, moisture content measurements can be inaccurate, time-consuming and require expensive instrumentation.

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## **Fundamentals of Moisture Sorption Isotherms**

(moisture content) that can be held at a given energy state (water activity). Moisture sorption isotherms describe the relationship between water activity and moisture content at a constant temperature. The nature of this relationship depends on the interaction

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between water and other ingredients. The amount of water vapor that

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## **Moisture Sorption : Practical Aspects of Isotherm ...**

At equilibrium, the relationship between water content and

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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 also

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changes.

## **Moisture sorption isotherm - Wikipedia**

Moisture sorption isotherms, i.e., the relationship between moisture content and  $a_w$  at constant pressure and temperature describing the sorption process of water molecules into a specific material, are useful when identifying optimal food dehydration and

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storage conditions.

Moisture sorption properties affect physicochemical and biological phenomena such as enzymatic degradation, microbial activity, food microstructure, sensory quality deterioration, nutrient losses, and other changes ...

## **Moisture Sorption Isotherms of Foods: Experimental ...**

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Abstract Sorption isotherms of dried or intermediate moisture content (IMC) products are most important to model moisture uptake during storage and distribution. Working isotherms of IMC bananas were determined at five different temperatures (10, 15, 20, 30 and 40 °C). Desorption and adsorption isotherms were determined at 10 and 40 °C.

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## **Sorption isotherms and moisture sorption hysteresis of ...**

Moisture sorption isotherms serve as a blueprint for moisture relations in foods and modern instrumentation has made it possible for anyone to analyse the moisture relations of their product. The efficacy of isotherms in food engineering

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depends on being able to achieve high data resolution without drastically increasing isotherm test time.

## **Moisture Sorption Isotherms in food engineering Food NZ**

Sorption isotherms can control unstable storage conditions such as relative humidity, temperature and water activity and moisture content of the product. A sorption

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isotherm is a relationship between equilibrium moisture content (EMC) and water activity ( $a_w$ ) at constant temperature and pressure.

## **Moisture sorption isotherm, isosteric heat and adsorption**

...

The moisture sorption isotherms of food and agricultural products are therefore of special interest in the design



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of storage and preservation processes such as packaging, drying, mixing, freeze-drying and other processes that require the prediction of food stability, shelf life and glass transition and estimation of drying time [ 10 ], texture and deteriorative reactions in agricultural and food products.

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