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distribution and consumption.

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essential for the rational design and operation of food processes and for the prediction of the response of foods to processing, distribution and storage conditions.

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Functional and chemical properties of food - a fact of life as total quality, and takes into account the entire spectrum of physical properties of foods. In addition, in a globalized market, foods must be differentiated to better compete and Page 23/36

the differentiation has to be based on their physical properties. Thus, it is necessary to characterize the properties of foods and to evaluate them by means

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properties of foods requires a knowledge of physical chemistry and how it applies to specific foods and food processes. Food physical chemistry is essential for improving the quality of foods, their stability and food product development.

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Fruits contains organic acid and have an acid reaction while foods such as milk and eggs have neutral reaction.? The term hydrogen ion concentration is used to express the degree of acidity or alkalinity of a food or a given solution.

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The pH is an indicator of the amount of acid or base present in a food. For Page 30/36

canned foods, a pH of 4.6 or lower would prevent microorganisms such as Clostridium botulinum to grow if proper sterilization time and temperature are used. The pH also affects flavor, color and texture. The pH is measured using a pH meter.

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