

# A GUIDE TO THE MAILLARD REACTION

The Maillard reaction occurs during cooking, and it is responsible for the non-enzymatic browning of foods when cooked. It actually consists of a number of reactions, and can occur at room temperature, but is optimal between 140-165°C. The Maillard reaction occurs in three stages, detailed here.

1

The carbonyl group on a sugar reacts with a protein or amino acid's amino group, producing an N-substituted glycosylamine.



2

The glycosylamine compound generated in the first step isomerises, by undergoing Amadori rearrangement, to give a ketosamine.



3

The ketosamine can react in a number of ways to produce a range of different products, which themselves can react further.



## Classes of Maillard Reaction Products



The Maillard reaction produces hundreds of products; a small subset of these contribute to flavour and aroma, some groups of which are described below. Melanoidins are also formed; brown, polymeric substances which contribute to the colouration of many cooked foods.



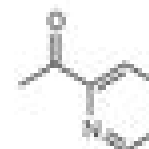
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crackling-like  
cereal



FURANONES  
sweet  
caramel  
burnt



FURANS  
meaty  
burnt  
caramel-like



OXAZOLES  
green  
nutty  
sweet



THIOPHENES  
meaty  
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# The Maillard Reaction Chemistry Biology And Implications

**H. E. Nursten**



## **The Maillard Reaction Chemistry Biology And Implications:**

The Maillard Reaction H. E. Nursten, 2005 The Maillard Reaction Chemistry Biochemistry and Implications provides a comprehensive treatise on the Maillard reaction This single author volume covers all aspects of the Maillard reaction in a uniform coordinated and up to date manner The Maillard Reaction Chemistry Biochemistry and Implications will be welcomed as an important publication for both new and experienced researchers who are involved in solving the mysteries and complexities of Maillard chemistry and biochemistry It will also appeal to students university lecturers and researchers in a variety of fields including food science nutrition biochemistry medicine pharmacology toxicology and soil science BOOK JACKET

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The Maillard Reaction in Foods and Medicine J O'Brien, H E Nursten, M J Crabbe, J M Ames, 1998-04-01 This collection of papers are devoted to a single chemical reaction The Maillard reaction They look at various different topics such as its use in the food industry and its relation to ageing and age related diseases

**Analytical Methods for the Assessment of Maillard Reactions in Foods** Rajeev K. Singla, Ashok K. Dubey, Sara M. Ameen, Shana Montalto, Salvatore Parisi, 2018-03-08 This Brief provides an overview of different analytical methods and techniques for the qualitative and quantitative evaluation of Maillard Reactions and their reaction products in foods during processing and storage Reliable methodology for the investigation of Maillard Reactions and their products are of utmost importance in food analysis since Maillard Reactions can on the one hand be desirable and advantageous influencing the colors flavors and odors of food products they can on the other hand also produce detrimental compounds afflicting the consumers health e g

furfurals furosine or acrylamide This Brief introduces different analytical methods which can be used to investigate and characterize Maillard Reactions and their products in foods including for example capillary electrophoresis high performance liquid chromatography gas chromatography with mass spectrometric detection UV VIS spectrophotometry fluorescence electronic nose gravimetric systems and many more The chapters exemplify how the analytical techniques can be applied for assessing and evaluating different Maillard Reaction products in foods Readers will find basic information as well as practical hints and guidelines for application in their own laboratory

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Handbook of Biochemistry and Molecular Biology, 2010-05-21 Edited by renowned protein scientist and bestselling author Roger L Lundblad with the assistance of Fiona M Macdonald of CRC Press this fourth edition of the Handbook of Biochemistry and Molecular Biology represents a dramatic revision the first in two decades of one of biochemistry's most referenced works This edition gathers a wealth of information not easily obtained including information not found on the web Offering a molecular perspective not available 20 years ago it provides physical and chemical data on proteins nucleic acids lipids and carbohydrates Presented in an organized concise and simple to use format this popular reference allows quick access to the most frequently used data Covering a wide range of topics from classical biochemistry to proteomics and genomics it also details the properties of commonly used biochemicals laboratory solvents and reagents Just a small sampling of the wealth of information found inside the handbook Buffers and buffer solutions Heat capacities and combustion levels Reagents for the chemical modification of proteins Comprehensive classification system for lipids Biological characteristics of vitamins A huge variety of UV data Recommendations for nomenclature and tables in biochemical thermodynamics Guidelines for NMR measurements for determination of high and low pKa values Viscosity and

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Germany May 19 23 1996      The Maillard Reaction S. E. Fayle, Juliet A. Gerrard, 2002 It is almost 100 years since the Maillard reaction was first described Despite decades of research since then the products of the reaction and the mechanistic pathways leading to their formation are only gradually being unravelled Combining comprehensive information regarding the various methods that can be employed in the analysis of Maillard products with a discussion of the advantages and limitations of those methods this unique book provides a one stop text from which methods of analysis may be obtained It will be useful for both new and experienced researchers who are involved in solving the mysteries and complexities of Maillard chemistry      **The Maillard Reaction Reconsidered** Jack N. Losso, 2016-04-19 Cooking involves chemical reactions that can make food smell and taste better However the same process that is responsible for creating the aroma flavor palatability color and taste of grilled and seared foods has also been linked to the development of chronic degenerative diseases The Maillard reaction produces advanced glycation end products      **Foodborne Disease Handbook, Second Edition** Y. H. Hui, 2018-01-18 A study of foodborne disease focusing on seafood and environmental toxins This second edition discusses fish shellfish and freshwater and marine organisms affected by agricultural and food processing products including raw sewage industrial effluents trash and garbage pesticide runoff from crop lands and top soils and more      **Chronic Complications in Diabetes** Anders A F Sima, 2014-04-21 Individual volumes in the series Frontiers in Animal Diabetes Research provide basic researchers as well as clinical investigators with in depth coverage of basic experimental diabetes research Each volume will be topic oriented with timely and liberally referenced reviews The book provides a valuable reference source for basic researchers as well as clinical investigators graduate students and research fellows in the areas of diabetology endocrinology physiology and pharmacology      Oxidative Stress and Vascular Disease John F. Keaney Jr., 2012-12-06 One of the major biomedical triumphs of the post World War II era was the definitive demonstration that hypercholesterolemia is a key causative factor in atherosclerosis that hypercholesterolemia can be effectively treated and that treatment significantly reduces not only coronary disease mortality but also all cause mortality Treatment to lower plasma levels of cholesterol primarily low density lipoprotein LDL cholesterol is now accepted as best medical practice and both physicians and patients are being educated to take aggressive measures to lower LDL We can confidently look forward to important decreases in the toll of coronary artery disease over the coming decades However there is still uncertainty as to the exact mechanisms by which elevated plasma cholesterol and LDL levels initiate and favor the progression of lesions There is general consensus that one of the earliest responses to hypercholesterolemia is the adhesion of monocytes to aortic endothelial cells followed by their penetration into the subendothelial space where they differentiate into macrophages These cells and also medial smooth muscle cells that have migrated into the subendothelial space then become loaded with multiple large droplets of cholesterol esters the hallmark of the earliest visible atherosclerotic lesion the so called fatty streak This lesion is the precursor of the more advanced lesions both in animal models and in humans Thus the centrality of hypercholesterolemia

cannot be overstated Still the atherogenic process is complex and evolves over a long period of time

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