

Paper No: 1

Paper Title: Food Chemistry

Module No: 11: Fat Hydrolysis, Interesterification and Hydrogenation

11.0 Introduction

Lipids are recognized as essential nutrients in both human and animal diets. Edible fats and oils (lipids) are derived from plant, animal and marine sources. Fats are solid at normal room temperature whereas oils are liquid under similar conditions. Hydrogenation, interesterification and hydrolysis are distinct processes that can be applied to modify the physical or chemical properties of fats and oils in order to improve their usefulness. These processes can be used alone or in combination with each other. By combining hydrogenation and interesterification with the simple blending of native and modified oils, it is possible to modify the characteristics of fats and oils for specific applications. Hydrogenation is used to convert liquid oils into products having different consistencies, melting points and textures. On the other hand, interesterification produces changes in physical properties by rearrangement or redistribution of fatty acids within and among the triacylglycerides of oils.

11.1 Hydrolysis

Hydrolysis of fats and oils refers to the splitting of their triacylglycerides into their constituent fatty acids and glycerol in the presence of water (Figure 11.1).

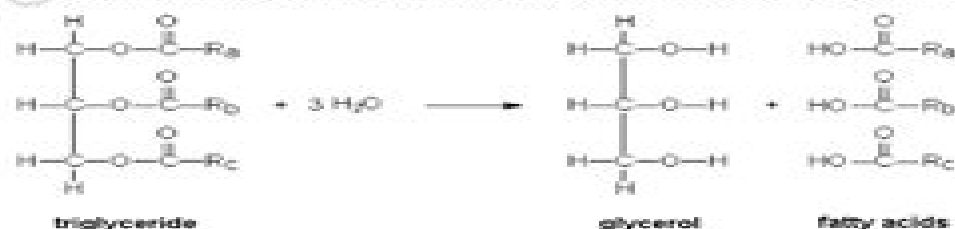


Figure 11.1. Fat hydrolysis

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