

عنوان مقاله:

(Catalyst Role in Edible Oil Hydrogenation to Achieve Plastic fat (Shortening

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خلاصه مقاله:

The process of edible oil hydrogenation filled a great need to alleviate raw material shortage in the margarine industry, which until then used mainly animal fats. Lack of insight in the rate limiting factors resulted in very long reaction times and variable product characteristics. The catalyst used in the industrial hydrogenation process, is a nickel catalyst deposited on a silicate natural support (diatomite) or on a silicate support obtained from aqueous glass. The purpose in hydrogenating fats is twofold: to increase the melting point and to improve flavor stability. Necessarily, fat hydrogenation is a three-phase process: solid catalyst, liquid oil, and hydrogen gas, which has low solubility in the oil

کلمات کلیدی:

Catalyst, Hydrogenation, Edible Oils, Nickel

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