Sunless Tanning with Erythulose

Globally Sourced. Locally Serviced.
Ingredients for the Sun care Industry
Sunless Tanning with Erythrulose

Market Driver

Exposure to damaging ultraviolet light (UV-A and UV-B) from the sun’s rays accounts for a high percentage of all skin disorders, including the loss of skin elasticity, wrinkling, premature aging, cell damage from sunburn, and even skin cancer. Due to the ever increasing awareness to these negative effects of sunbathing, there is a growing demand for self-tanning ingredients and technologies.

Erythrulose is a functional ingredient that can help to deliver self-tanning in a safe and effective manner with the following features and benefits:

- Naturally derived ingredient produced via a sugar fermentation process
- Helps deliver a uniform, longer lasting tanning effect
- Can be used in both instant self-tanners & gradual tanning formulations
- Very high stability in application
- Helps avoid streaking and blotchy coloring for a more “natural” tan
- Will not cause irritation or drying of the skin
- It results in a permanent tanning effect that won’t rinse off
- Product formulation can be accomplished without the use of preservatives if desired

Mechanism of Action

Erythrulose reacts via a Maillard reaction with the proteins on the skin surface, resulting in brown colored melanoids that are directly attached to the surface of the skin.

Formulating With Erythrulose

- Typical usage range from 1 to 5% in standard self-tanning formulations
- For gradual tanning formulations, 2 to 3% is used
- Can be formulated without DHA
- Erythrulose is added to the aqueous phase of lotions, creams, sprays, foams, or wipes

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