

Natural
Vegetable
Functional

The Lipid Expert!

Akoline GC

- Anionic emulsifier for skin care lotions and creams
- Skin firming and smoothing properties from citric acid

Product name

Akoline GC

INCI name

INCI: Hydrogenated Vegetable
Glycerides Citrate

Physical form/Consistency at 20 °C

Flakes, mp 63 °C. HLB=11

Regulatory Status

CTFA, EC No E471 and E472c

Recommended use levels

Emulsions 0.5-2 %

Packaging

Bag 15 kg

Product Data Sheet/Article number

8554

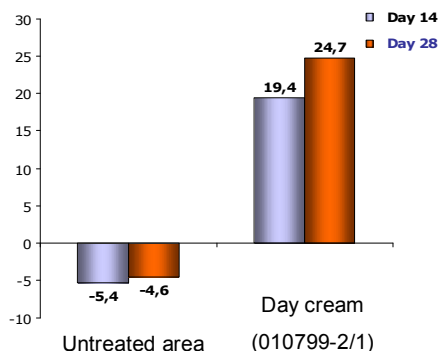
August 2008

Functionality and benefits

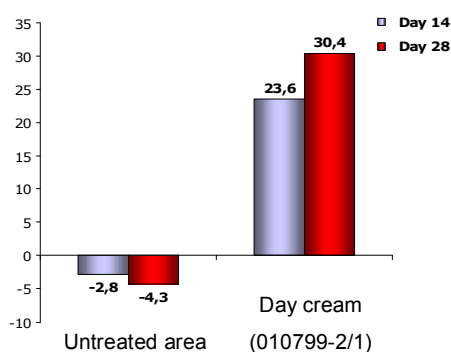
Akoline GC is an anionic emulsifier for skin care creams and lotions. It releases citric acid by hydrolysis on skin contact, supplementing the Natural Moisturising Factor (NMF). Akoline GC in combination with Akoline SL was shown in a clinical test to significantly improve skin firmness and smoothness (Fig.1). Akoline GC is non-irritating and non-sensitising making it suitable for use in products for sensitive skin. The hydrating and moisturising effects of the citrates is further enhanced by the ability of Akoline GC to participate in the formation of liquid crystals.

Dermatological test results

Firmness (%)



Smoothness (%)



Frame formulation including Akoline GC and Akoline SL, in total 2.5%

AarhusKarlshamn Sweden AB
Business Sector Lipids for Care
Phone +46 454 820 00, Fax +46 454 828 85
www.aak.com – lipid@aac.com

AarhusKarlshamn USA Inc.
Business Sector Lipids for Care
Phone 973-344-1300, Fax 973-344-6638
www.aak.com – lfc.us@aac.com

AAK

**Natural
Vegetable
Functional**



The Lipid Expert!

Akoline GC is capable of forming liquid crystals if combined with non-ionic emulsifiers such as mono/diglycerides, polyglycerol esters or ethoxylated fatty alcohols, making it also a good emulsion stabiliser and consistency improver. It can also be combined with a high-HLB anionic emulsifier such as Akoline SL to further stabilise the liquid crystals formed. Such combinations are also useful when formulating multiple emulsions for innovative product concepts.



Applications

Akoline GC is a primary emulsifier for elegant skin care creams and lotions, especially for facial care products, body moisturisers (body butters) and anti-aging/anti-wrinkle formulations. It can be formulated with both polar and non-polar emollients using combinations with mono/diglycerides and other non-ionic emulsifiers.

