oleon
a natural chemistry

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BASE

Radianol 1980

FUNCTIONALITY AND APPLICATIONS

Radianol 1980 is a saturated, liquid and easy spreading fatty alcohol. It is known for its moisturising properties in personal care products and for its very light, silky and soft dry skin feel. Thanks to its excellent thermal and oxidation stability and its good compatibility with other ingredients, isostearyl alcohol is mainly included in blends used as texturing agents and it is also widely used as building block for esters. Moreover the isostearyl alcohol chain length is known to have good pigment dispersion ability and to be able to form a barrier onto the skin without giving a greasy or sticky afterfeel. This makes this alcohol a perfect ingredient for color cosmetics, skin care and lip care applications.

CHARACTERISTICS (typical values)

Physical form	Liquid
Acid value	0.1 mg KOH/g
Iodine value	0.5 g I2/100g
Color	4 APHA
Dynamic viscosity (25°C)	68 mPa.s
Density (25°C)	856 kg/m^3

INCI Isostearyl alcohol
CAS 27458-93-1

ECOCERT
COSMOS APPROVED

100% NATURAL

Radianol 1980 is derived from a **renewable vegetable raw material source.** Oleon's manufacturing plants convert non-GMO and non palm vegetable fatty acids into isostearyl alcohol in a production process free of nickel catalyst.

PRODUCT FEATURES

Function
Moisturizer, dispersant, clarity enhancer, solvent for active ingredients

Application
skin & lip color

Biodegradability profile
Readily biodegradable (OECD 301B)

Naturality profile
According to ISO 16128
NOI = 1

Chemical stablity
The high degree of saturation ensures chemical stability, a stable color and odor quality and avoids the need for an antioxidant.

Dispersant activity
Due to its polar head and branched tail, isostearyl alcohol prevents the agglomeration of solid particles. Combined with a good spreading ability, it is a very effective and highly efficient dispersant.

Unique sensorial
Due to its branched structure, isostearyl alcohol has a typical emollient feel: a non-greasy after feel, a highly performing lipid film, soft skin feel and leaves a glossy appearance to the skin.

Good crystallization resistance
Isostearyl alcohol has a low cloud point compared to its straight-chained analogue. This characteristic is translated in a better resistance against crystallization in your end product.

Cold process method
Due to its structure, isostearyl alcohol is liquid at low temperatures and thus a perfect match for cold process methods. Formulations with heat sensitive products may require a cold emulsion method. Isostearyl alcohol is an excellent solution for challenging productions.

Amount of emollient needed to disperse 1 g of red oxide pigment to the point that the mix is liquid enough to flow.