

# Cosmosil E

## Evening Primrose Oil

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### Product description

The Cosmosil - E oil is extracted from the seeds of *Oenothera biennis* by cold pressing and filtering. The oil content of the seeds is appr. 25 %. The oil provides a rich source of Essential Fatty Acids (EFA), up to 90% of the fatty acids. It has a high content (Min 9%) of the physiological important Gamma-Linolenic Acid (C18:3 n-6). GLA is only found in two other commercial oils, Borage Oil (18-24%) and Blackcurrant Oil (13-17%).

### Product code, INCI name and CAS no.

IFSC product code : 901008  
INCI Name : *Oenothera biennis*  
CAS no. : 90028-66-3  
EINECS : 289-859-2

### Specifications

Appearance : Golden yellow oil.  
Odour : Fresh nutty odour  
Colour (Lovibond 5 1/4 scale) : Max. 5.0 Red  
% Free Fatty Acid (as oleic acid) : Max. 1.5  
Iodine Value : 150 - 170  
Peroxide Value (meq/kg) : Max. 5.0  
Unsaponifiable Matter : 0.5 - 2.3%  
Saponification Value : 185 - 195

### Fatty Acid Composition in % :

Palmitic	C16:0	4 - 9
Stearic	C18:0	1 - 3
Oleic	C18:1	5 - 11
Linoleic	C18:2	68 - 78
$\alpha$ -Linolenic	C18:3 n-3	0 - 1
$\gamma$ -Linolenic	C18:3 n-6	9 - 11
Total Saturated		4 - 13
Total Monounsaturated		5 - 11
Total Polyunsaturated		67 - 81

The variations in fatty acid composition are due to climatic and variety influences.

### Use in Cosmetics

Well suited to various applications in the Cosmetic, Pharmaceutical and Health Product Industries. Cosmosil - E can be distinguished from monounsaturated oils in that it does not act by occlusion only, but is readily absorbed by the skin, where it exerts its effect in two ways e.g. by reduction of the Trans Epidermal Water Loss and by formation of autocoids.

### Storage

Keep in a cool (preferably below 5 to 10°C, the cooler the better), dark and dry store-room.

### Shelf Life

Under optimal storage conditions, in original unopened drums/containers, minimum six months

### Packaging

Packaging options as requested.

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