

**ECLA****EUROPEAN CLASSIFICATION****C11C****FATTY ACIDS FROM FATS, OILS OR WAXES; CANDLES; FATS, OILS OR FATTY ACIDS BY CHEMICAL MODIFICATION OF FATS, OILS, OR FATTY ACIDS OBTAINED THEREFROM****C11C1/00****Preparation of fatty acids from fats, fatty oils, or waxes; Refining the fatty acids**  
(recovery of fatty acids from waste materials [C11B13/00](#))**C11C1/00A**

- [N: Sources of fatty acids, e.g. natural glycerides, characterised by the nature, the quantities or the distribution of said acids]

**C11C1/00B**

- [N: Splitting up mixtures of fatty acids into their constituents (processes intended for both fats and fatty acids [C11B7/00](#))]

**C11C1/00D**

- [N: using organic solvents]

**C11C1/02**

- from fats or fatty oils

**C11C1/02B**

- [N: by saponification and release of fatty acids]

**C11C1/04**

- by hydrolysis

**C11C1/04B**

- [N: using enzymes or microorganisms, living or dead]

**C11C1/06**

- using solid catalysts

**C11C1/08**

- Refining

**C11C1/10**

- by distillation

**C11C1/10B**

- [N: after or with the addition of chemicals]

**C11C1/10B2**

- [N: inert gases or vapors]

**C11C3/00****Fats, oils, or fatty acids by chemical modification of fats, oils, or fatty acids obtained therefrom** (sulfonated fats or oils [C07C309/62](#); factice [C08H](#); drying oils [C09F](#))**C11C3/00B**

- [N: by esterification of fatty acids with alcohols ([C11C3/02](#) takes precedence)]

**C11C3/00D**

- [N: by oxidation]

**C11C3/02**

- by esterification of fatty acids with glycerol

**C11C3/02B**

- [N: with a stoichiometric excess of glycerol]

**C11C3/04**

- by esterification of fats or fatty oils

**C11C3/06**

- with glycerol

**C11C3/08**

- with fatty acids

**C11C3/10**

- Ester interchange

**C11C3/12**

- by hydrogenation

**C11C3/12B**

- [N: using catalysts based principally on nickel or derivatives]

**C11C3/12M**

- [N: using catalysts based principally on other metals or derivatives]

C11C3/14 . by isomerisation [N: (isomerisation induced by hydrogenation [C11C3/12](#))]

## **C11C5/00 Candles**

C11C5/00B . [N: Ingredients]

C11C5/00B4 . . [N: dyes, pigments; products giving a coloured flame]

C11C5/00D . [N: wicks, related accessories]

C11C5/00F . [N: Candles characterised by their form; Composite candles, e.g. candles containing zones of different composition, inclusions, or the like]

C11C5/02 . Apparatus for preparation thereof

C11C5/02B . . [N: by compressing solid materials in a mould without heating]

C11C5/02D . . [N: by casting or melting in a mould]

C11C5/02F . . [N: by dipping a wick in a melt]

C11C5/02G . . [N: by a continuous process, e.g. by extrusion by conveying a melt together with the wick through a solidification zone]

C11C5/02K . . [N: by shaping a preform, e.g. forming the butts, trimming]