

Title (en)

METHOD FOR PRODUCTION OF ALKYL ESTERS

Title (de)

HERSTELLUNGSVERFAHREN FÜR ALKYLESTER

Title (fr)

PROCEDE DE FABRICATION D'ESTERS D'ALKYLE

Publication

**EP 1565424 A1 20050824 (EN)**

Application

**EP 02779013 A 20021127**

Priority

AU 0201594 W 20021127

Abstract (en)

[origin: WO2004048311A1] A method for production of alkyl esters from a mixture of glycerides and free fatty acids, originating primarily from grease trap waste, is provided. The mixture is first solvated in a low boiling point alcohol and then the pH of the solution is adjusted to about 1 to 2 by addition of an acid to effect acid-catalysed alkyl esterification. The acidic solution is then treated with a concentrated alkoxide solution to raise the pH of the solution about pH12 to effect base-catalysed transesterification of glycerides contained in the mixture. The resulting solution is then treated with an acid to decrease the pH of the solution to about 2 to effect acid-catalysed esterification of residual saponified by-products. The alcohol solvent is removed by distillation or other suitable techniques and the resulting alkyl esters are separated from any remaining residues and neutralised of residual acids.

IPC 1-7

**C07C 67/08; C07C 69/34**

IPC 8 full level

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CPC (source: EP)

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