

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 A4 20060531 (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

C07C 67/03 (2006.01); **C07C 67/08** (2006.01); **C11C 3/00** (2006.01); **C11C 3/10** (2006.01)

CPC (source: EP)

C07C 67/03 (2013.01); **C07C 67/08** (2013.01); **C11C 3/003** (2013.01); **C11C 3/10** (2013.01)

Citation (search report)

- [XA] EP 0127104 A1 19841205 - HENKEL KGAA [DE]
- See references of WO 2004048311A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 2004048311 A1 20040610; AU 2002342410 A1 20040618; CA 2507329 A1 20040610; CN 1720214 A 20060111; EP 1565424 A1 20050824; EP 1565424 A4 20060531; JP 2006508148 A 20060309

DOCDB simple family (application)

AU 0201594 W 20021127; AU 2002342410 A 20021127; CA 2507329 A 20021127; CN 02830146 A 20021127; EP 02779013 A 20021127; JP 2004554042 A 20021127