

Title (en)
SECONDARY C 10- 18 SURFACTANT ALCOHOLS

Title (de)
SEKUNDÄRE C 10-C 18-TENSIDALKOHOLE

Title (fr)
ALCOOLS TENSIOACTIFS C10-C18 SECONDAIRES

Publication
EP 1303472 A1 20030423 (DE)

Application
EP 01956537 A 20010716

Priority
• DE 10035617 A 20000721
• EP 0108197 W 20010716

Abstract (en)
[origin: WO0208164A1] The invention relates to secondary C10 to C18 surfactant alcohols of the general formula (I), wherein R represents methyl or ethyl and R' represents a linear or branched alkyl group with 6-13 C atoms, excepting 5-ethyl-2-nonanol and 6-ethyl-3-decanol, in addition to fatty alcohol alkoxylates, alkyl phosphates, alkyl sulphates, alkyl ether phosphates and alkyl ether sulphates. The secondary C10 to C18 surfactant alcohols can be produced by a simple aldol condensation of linear or branched saturated or unsaturated C7-C14 aldehydes, excepting 2-ethyl hexanal, with acetone or methyl ethyl ketone and the subsequent hydrogenation of the condensation product. In the preferred method, the aldol condensation is heterogenically catalysed under hydrogenation conditions and the saturated ketone that has been formed is subsequently hydrogenated.

IPC 1-7
C07C 31/125; **C07C 45/74**; **C07C 29/17**; **C07C 43/11**; **C07C 305/06**; **C07C 305/10**; **C07F 9/09**; **C07F 9/11**; **C11D 1/14**; **C11D 1/34**; **C11D 1/72**

IPC 8 full level
C09K 23/02 (2022.01); **C07B 61/00** (2006.01); **C07C 29/145** (2006.01); **C07C 29/17** (2006.01); **C07C 31/125** (2006.01); **C07C 41/03** (2006.01); **C07C 43/11** (2006.01); **C07C 45/50** (2006.01); **C07C 45/62** (2006.01); **C07C 45/73** (2006.01); **C07C 45/74** (2006.01); **C07C 49/04** (2006.01); **C07C 305/06** (2006.01); **C07C 305/10** (2006.01); **C07F 9/09** (2006.01); **C07F 9/11** (2006.01); **C08G 65/28** (2006.01); **C09K 23/14** (2022.01); **C09K 23/38** (2022.01); **C11D 1/14** (2006.01); **C11D 1/16** (2006.01); **C11D 1/29** (2006.01); **C11D 1/34** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP US)
C07C 29/175 (2013.01 - EP US); **C07C 31/125** (2013.01 - EP US); **C07C 41/03** (2013.01 - EP US); **C07C 45/50** (2013.01 - EP US); **C07C 45/62** (2013.01 - EP US); **C07C 45/73** (2013.01 - EP US); **C07C 45/74** (2013.01 - EP US); **C07C 305/06** (2013.01 - EP US); **C07C 305/10** (2013.01 - EP US); **C07F 9/091** (2013.01 - EP US); **C07F 9/11** (2013.01 - EP US); **C11D 1/146** (2013.01 - EP US); **C11D 1/29** (2013.01 - EP US); **C11D 1/345** (2013.01 - EP US); **C11D 1/72** (2013.01 - EP US)

C-Set (source: EP US)
1. **C07C 45/62 + C07C 47/02**
2. **C07C 45/73 + C07C 47/02**
3. **C07C 45/74 + C07C 47/21**
4. **C07C 29/175 + C07C 31/125**
5. **C07C 41/03 + C07C 43/11**
6. **C07C 45/50 + C07C 47/02**

Citation (search report)
See references of WO 0208164A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0208164 A1 20020131; AU 7849001 A 20020205; BR 0112647 A 20030624; CA 2415715 A1 20020131; CN 1440375 A 20030903; DE 10035617 A1 20020131; EP 1303472 A1 20030423; JP 2004504370 A 20040212; MX PA03000205 A 20030619; US 2003176745 A1 20030918; US 7074972 B2 20060711; ZA 200300507 B 20040714

DOCDB simple family (application)
EP 0108197 W 20010716; AU 7849001 A 20010716; BR 0112647 A 20010716; CA 2415715 A 20010716; CN 01812341 A 20010716; DE 10035617 A 20000721; EP 01956537 A 20010716; JP 2002514074 A 20010716; MX PA03000205 A 20010716; US 31258603 A 20030117; ZA 200300507 A 20030120