

Title (en)

METHOD FOR PREPARING A SULFUR OR SELENISED COMPOUND BY THIOLINE REACTION

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER SCHWEFEL- ODER EINER SELENISIERTEN VERBINDUNG DURCH THIOLINERREAKTION

Title (fr)

PROCEDE DE PREPARATION D'UN COMPOSE SOUFRE OU SELENIE PAR REACTION THIOLINE

Publication

**EP 3947346 A1 20220209 (FR)**

Application

**EP 20714249 A 20200402**

Priority

- FR 1903619 A 20190404
- EP 2020059380 W 20200402

Abstract (en)

[origin: WO2020201412A1] The invention relates to a method for preparing a compound of formula (I) [Chem I], in which X is chosen among S, Se; R1 is chosen from among the alkyl, aryl, alkylaryl and heteroaryl groups, optionally carriers of one or more function, R2, R3 and R4 are chosen, independently of each other, from among H and the alkyl, aryl and alkylaryl groups; or R2 and R4 together form a C5-C10 carbon ring; R5 is chosen from among H and the alkyl, aryl and alkylaryl groups, or represents a group or a hydrocarbon chain, optionally functionalised, said method comprising the reaction of a compound of formula (IV) [Chem IV]: R1 – (X)<sub>m</sub> – R21, in which X is chosen from among S and Se; m = 1 or 2; R1 is as defined above for compound (I); and if m = 1, R21 represents H; if m = 2, R21 is chosen from among the alkyl, aryl and alkylaryl groups with a compound of formula (V): [Chem V], where R2, R3, R4 and R5 are as defined above for the compounds of formula (I), by irradiation with radiation at a wavelength from 200 to 800 nm in the presence of at least one carrier compound of at least one function chosen from among alcohol, carboxylic acid, thioether and selenoether functions.

IPC 8 full level

**C07C 319/18** (2006.01); **C07C 319/14** (2006.01); **C07C 321/22** (2006.01); **C07C 323/12** (2006.01); **C07C 323/52** (2006.01)

CPC (source: EP KR)

**C07C 315/04** (2013.01 - KR); **C07C 317/12** (2013.01 - KR); **C07C 317/18** (2013.01 - KR); **C07C 317/46** (2013.01 - KR);  
**C07C 319/14** (2013.01 - EP); **C07C 319/18** (2013.01 - EP); **C07C 319/22** (2013.01 - KR); **C07C 323/52** (2013.01 - KR);  
**C07C 2601/14** (2017.05 - EP KR)

C-Set (source: EP)

1. **C07C 319/18** + **C07C 321/22**
2. **C07C 319/18** + **C07C 323/12**
3. **C07C 319/18** + **C07C 323/52**
4. **C07C 319/14** + **C07C 323/52**

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2020201412 A1 20201008**; CN 113661159 A 20211116; CN 113661159 B 20240813; EP 3947346 A1 20220209; FR 3094715 A1 20201009;  
FR 3094715 B1 20230407; JP 2022527179 A 20220531; KR 20210148229 A 20211207; SG 11202111053T A 20211129;  
TW 202100509 A 20210101

DOCDB simple family (application)

**EP 2020059380 W 20200402**; CN 202080027064 A 20200402; EP 20714249 A 20200402; FR 1903619 A 20190404;  
JP 2021557805 A 20200402; KR 20217034952 A 20200402; SG 11202111053T A 20200402; TW 109111528 A 20200406