

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 August 2025 (14.08.2025)



(10) International Publication Number
WO 2025/168609 A2

- (51) **International Patent Classification:**
C07C 45/34 (2006.01) C07C 49/653 (2006.01)
- (21) **International Application Number:**
PCT/EP2025/052925
- (22) **International Filing Date:**
05 February 2025 (05.02.2025)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
2401544.8 06 February 2024 (06.02.2024) GB
- (71) **Applicant:** GIVAUDAN SA [CH/CH]; Chemin de la Parfumerie 5, 1214 Vernier (CH).
- (72) **Inventors:** MIRANDA, Josep; Chemin de la Parfumerie 5, 1214 Vernier (CH). RÜTHI, Fabian; Kemtpark 50, 8310 Kemptthal (CH). SCHROEDER, Fridtjof; Kemtpark 50, 8310 Kemptthal (CH).

(74) **Agent:** GLOBAL PATENTS; Givaudan SA Grafenaustrasse 7, 6300 Zug (CH).

(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UY, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) **Title:** PROCESS

(57) **Abstract:** The present invention provides a method (or process) for producing Rotundone by allylic oxidation of α -Guaiene in the presence of catalytic amounts of iron (II) phthalocyanine (FePc). The present invention also provides use of iron (II) phthalocyanine (FePc) in the allylic oxidation of α -Guaiene to produce Rotundone. The invention further provides Rotundone obtained by the method described herein.

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