



(51) International Patent Classification:
C07C 319/20 (2006.01) C07B 61/00 (2006.01)
C07C 323/52 (2006.01)

(21) International Application Number:
PCT/JP2011/069964

(22) International Filing Date:
26 August 2011 (26.08.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2010-190568 27 August 2010 (27.08.2010) JP

(71) Applicant (for all designated States except US): SUMITOMO CHEMICAL COMPANY, LIMITED [JP/JP];
27-1, Shinkawa 2-chome, Chuo-ku, Tokyo, 1048260 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TANI, Kazuyasu [JP/JP]; c/o SUMITOMO CHEMICAL COMPANY, LIMITED, 1-98, Kasugadenaka 3-chome, Konohana-ku, Osaka-shi, Osaka, 5548558 (JP). HIROSE, Taro [JP/JP]; c/o SUMITOMO CHEMICAL COMPANY, LIMITED, 1-98, Kasugadenaka 3-chome, Konohana-ku, Osaka-shi, Osaka, 5548558 (JP). HAGIYA, Koji [JP/JP]; c/o SUMITOMO CHEMICAL COMPANY, LIMITED, 1-98, Kasugadenaka 3-chome, Konohana-ku, Osaka-shi, Osaka, 5548558 (JP).

(74) Agents: TANAKA, Mitsuo et al.; AOYAMA & PARTNERS, IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka, 5400001 (JP).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: PROCESS FOR PREPARING SULFUR-CONTAINING 2-KETOCARBOXYLATE COMPOUND

(57) Abstract: The present invention provides a novel process for preparing a sulfur-containing 2-ketocarboxylate compound without using any enzyme. The process comprises a step of oxidizing a hydroxyacetate compound having an optionally-substituted sulfur-containing hydrocarbon group at 2-position in the presence of a vanadium compound. Preferably, the step is carried out further in the presence of oxygen, and more preferably, in the presence of an organic solvent.

