

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2021/216029 A1

(43) International Publication Date
28 October 2021 (28.10.2021)

(51) International Patent Classification:

C07C 319/18 (2006.01) C07C 323/25 (2006.01)
C07C 319/26 (2006.01)

(21) International Application Number:

PCT/US2020/028897

(22) International Filing Date:

19 April 2020 (19.04.2020)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant: AMSA, INC. [US/US]; 4714 S. Garfield Road,
Auburn, MI 48611 (US).

(72) Inventors: HAAG, Anthony, P.; 213 Donna Ave., Boze-
man, MT 59718 (US). THOMAS, Pulikkottil, Jacob; 4310
Andre Street, Midland, MI 48642 (US).

(74) Agent: KIMBLE, Karen L.; Technology Law, PLLC,
3595 N. Sunset Way, Sanford, MI 48657 (US).

(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, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME,
MG, MK, MN, 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, UZ, VC, VN, WS, 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, RW, 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, 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).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

Published:

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

(54) Title: PROCESS FOR PREPARING DTEA HCl

(57) Abstract: The present invention provides an improved process for preparing DTEA HCl from decene and cysteamine HCl by using a catalyst, solvent and a Co- solvent to aid the reaction and provide low temperature stabilization of the resulting product solution.

