

666	¹ H-NMR δ (CDCl ₃ , ppm): 0.82 (3/2H, d, J=6.8 Hz), 0.87 (3/2H, d, J=6.8 Hz), 0.93 (3/2H, d, J=6.8 Hz), 0.99 (3/2H, d, J=6.8 Hz), 1.00 (3/2H, d, J=6.8 Hz), 1.01 (3/2H, d, J=6.8 Hz), 1.03 (3/2H, d, J=6.3 Hz), 1.05 (3/2H, d, J=6.8 Hz), 1.40 (9/2H, s), 1.43 (9/2H, s), 1.88-1.90 (1H, m), 2.01-2.03 (1/2H, m), 2.04-2.06 (1/2H, m), 3.48-3.49 (1/2H, m), 3.55-3.58 (1H, m), 3.65-3.70 (1/2H, m), 3.80-3.90 (1H, m), 3.92-4.01 (1H, m), 5.00 (1H, br), 6.12 (1/2H, br), 6.21 (1/2H, br), 7.05 (1H, br), 7.27-7.30 (1H, m), 7.41-7.51 (3H, m), 7.65-7.67 (1H, m). white crystal: m.p. 144.3°C
671	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.8 Hz), 0.80 (3H, d, J=6.8 Hz), 1.05 (6H, d, J=6.8 Hz), 1.19-1.28 (3H, m), 1.94-2.05 (2H, m), 3.41-3.47 (1H, m), 3.54-3.60 (1H, m), 3.89-3.93 (1H, m), 4.12-4.14 (2H, m), 5.12-5.15 (1H, m), 6.54 (1H, br), 6.70-6.75 (1H, m), 6.91-6.92 (1H, m), 7.16-7.20 (1H, m), 7.41-7.46 (2H, m), 7.52-7.54 (1H, m), 7.67-7.68 (1H, m). white crystal m.p 156.8°C
672	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.8 Hz), 0.80 (3H, d, J=6.8 Hz), 1.05 (6H, d, J=6.8 Hz), 1.17-1.26 (6H, m), 1.93-2.04 (2H, m), 3.35-3.47 (1H, m), 3.58-3.65 (1H, m), 3.84-3.93 (1H, m), 4.08-4.15 (1H, m), 4.82-4.90 (1H, m), 5.08-5.15 (1H, m), 6.58 (1H, br), 6.74-6.76 (1H, m), 6.91-6.92 (1H, m), 7.14-7.20 (1H, m), 7.41-7.46 (2H, m), 7.52-7.54 (1H, m), 7.66-7.68 (1H, m). white crystal m.p 195.1°C

Properties of Compound (45) in Table 2

Compo und No.	Properties
675	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.80 (3H, d, J=6.8 Hz), 1.05 (3H, d, J=6.8 Hz), 1.13 (3H, d, J=6.8 Hz), 1.95-2.03 (2H, m), 3.35-3.49 (1H, m), 3.56-3.69 (1H, m), 3.81-3.98 (1H, m), 4.05-4.20 (1H, m), 5.06-5.09 (2H, m), 6.61 (1H, br), 6.71-6.73 (1H, m), 7.28-7.40 (6H, m), 7.42-7.44 (2H, m), 7.49-7.53 (1H, m), 7.63-7.66 (1H, m). white crystal
680	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.92-1.00 (6H, m), 1.16-1.24 (1H, m), 1.50-1.67 (2H, m), 2.04-2.09 (1H, m), 3.43-3.52 (1H, m), 3.68-3.78 (4H, m), 3.89-3.94 (1H, m), 4.07-4.10 (1H, m), 5.17 (1H, br), 6.23 (1H, d, J=8.3 Hz), 7.07 (1H, br), 7.29-7.32 (1H, m), 7.39-7.50 (3H, m), 7.67 (1H, d, J=7.8 Hz). white crystal m.p. 202.5°C
681	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.90-0.97 (6H, m), 1.15-1.26 (4H, m), 1.47-1.67 (2H, m), 2.02-2.07 (1H, m), 3.46-3.49 (1H, m), 3.63-3.69 (1H, m), 3.89 (1H, t, J=7.8 Hz), 4.03-4.13 (3H, m), 5.11 (1H, br), 6.20 (1H, d, J=7.8 Hz), 7.07 (1H, br), 7.27 (1H, d, J=7.8 Hz), 7.37-7.48 (3H, m), 7.64 (1H, d, J=7.8 Hz). white crystal m.p. 179.5°C.
682	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.3 Hz), 0.85 (3H, d, J=6.3 Hz), 0.92 (3H, t, J=7.3 Hz), 0.97 (3H, d, J=6.3 Hz), 1.18-1.24 (7H, m), 1.48-1.67 (2H, m), 2.02-2.08 (1H, m), 3.48-3.67 (2H, m), 3.85-3.89 (1H, m), 4.03-4.09 (1H, m), 4.84-4.89 (1H, m), 5.03-5.07 (1H, m), 6.18 (1H, d), 7.08 (1H, br), 7.27-7.30 (1H, m), 7.35-7.42 (2H, m), 7.45-7.49 (1H, m), 7.64 (1H, d, J=7.8 Hz). white crystal m.p. 194.3°C.

683	¹H-NMR δ (CDCl₃, ppm): 0.76-0.97 (18H, m), 1.14-1.20 (1H, m), 1.46-1.67 (2H, m), 1.83-1.92 (1H, m), 2.00-2.06 (1H, m), 3.46-3.52 (1H, m), 3.60-3.70 (1H, m), 3.78-3.90 (3H, m), 4.06-4.10 (1H, m), 5.18 (1H, d, J=8.3 Hz), 6.25 (1H, d, J=7.8 Hz), 7.10 (1H, d, J=7.8 Hz), 7.26-7.29 (1H, m), 7.36-7.51 (3H, m), 7.64 (1H, d, J=7.8 Hz). white crystal m.p. 169.8°C.
685	¹H-NMR δ (CDCl₃, ppm): 0.74-0.99 (12H, m), 1.17-1.22 (1H, m), 1.49-1.70 (2H, m), 2.04-2.09 (1H, m), 3.48-3.56 (1H, m), 3.64-3.78 (4H, m), 3.90-3.96 (1H, m), 4.10-4.17 (1H, m), 5.20 (1H, d), 6.26 (1H, d, J=8.8 Hz), 7.48-7.57 (2H, m), 7.74 (1H, br), 7.97 (2H, d, J=7.8 Hz), 8.05 (2H, d, J=7.8 Hz). white crystal m.p. 172.5°C
686	¹H-NMR δ (CDCl₃, ppm): 0.76 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.90-1.01 (6H, m), 1.19-1.28 (4H, m), 1.52-1.68 (2H, m), 2.03-2.09 (1H, m), 3.48-3.56 (1H, m), 3.68-3.76 (1H, m), 3.90-3.96 (1H, m), 4.08-4.16 (3H, m), 5.15 (1H, d), 6.24 (1H, d, J=8.8 Hz), 7.47-7.57 (2H, m), 7.75 (1H, br), 7.97 (1H, d, J=7.8 Hz), 8.05 (1H, d, J=7.8 Hz). white crystal m.p. 141.1°C.

Properties of Compound (46) in Table 2

Compo und No.	Properties
687	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.4 Hz), 0.84 (3H, d, J=6.4 Hz), 0.89-0.98 (6H, m), 1.14-1.26 (6H, m), 1.47-1.67 (2H, m), 2.00-2.08 (1H, m), 3.47-3.54 (1H, m), 3.64-3.72 (1H, m), 3.86-3.90 (1H, m), 4.06-4.13 (1H, m), 4.85-4.92 (1H, m), 5.06 (1H, br), 6.19 (1H, d, J=8.8 Hz), 7.45-7.55 (2H, m), 7.73 (1H, br), 7.94 (1H, d, J=7.3 Hz), 8.03 (1H, d, J=7.3 Hz). white crystal m.p. 189.1°C.
688	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.3 Hz), 0.85-1.00 (15H, m), 1.16-1.28 (1H, m), 1.50-1.68 (2H, m), 1.85-1.93 (1H, m), 2.03-2.08 (1H, m), 3.49-3.56 (1H, m), 3.66-3.93 (4H, m), 4.10-4.16 (1H, m), 5.17 (1H, d), 6.20 (1H, d, J=8.3 Hz), 7.47-7.57 (2H, m), 7.75 (1H, br), 7.97 (1H, d, J=7.8 Hz), 8.06 (1H, d, J=7.8 Hz). white crystal m.p. 153.7°C.
690	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.93 (3H, t, J=7.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.21-1.27 (2H, m), 1.50-1.56 (1H, m), 2.04-2.07 (1H, m), 3.49-3.53 (1H, m), 3.68 (3H, s), 3.70-3.76 (1H, m), 3.93-3.95 (1H, m), 4.08-4.15 (1H, m), 5.25 (1H, d, J=7.8 Hz), 6.34 (1H, d, J=8.3 Hz), 7.27-7.31 (1H, m), 7.61-7.64 (1H, m), 7.74 (1H, m), 7.98-8.02 (1H, m). white solid
691	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.3 Hz), 0.93 (3H, t, J=7.3 Hz), 0.98 (3H, d, J=6.8 Hz), 0.96-1.20 (1H, m), 1.23 (3H, t, J=6.8 Hz), 1.50-1.56 (1H, m), 1.64-1.66 (1H, m), 2.03-2.08 (1H, m), 3.49-3.55 (1H, m), 3.64-3.74 (1H, m), 3.91-3.95 (1H, m), 4.09-4.14 (3H, m), 5.20 (1H, d, J=7.8 Hz), 6.32 (1H, d, J=8.3 Hz), 7.25-7.30 (1H, m), 7.62 (1H, dd, J=2.4, 8.3 Hz), 7.74 (1H, m), 7.99 (1H, dd, J=4.9, 8.8 Hz). white crystal m.p. 197.7°C

692	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.3 Hz), 0.85 (3H, d, J=6.3 Hz), 0.94 (3H, t, J=7.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.22 (6H, d, J=6.3 Hz), 1.53-1.57 (1H, m), 1.62 (2H, m), 2.04-2.09 (1H, m), 3.50-3.56 (1H, m), 3.63-3.68 (1H, m), 3.87-3.91 (1H, m), 4.10-4.12 (1H, m), 4.86-4.93 (1H, m), 5.06 (1H, m), 6.20 (1H, d, J=8.8 Hz), 7.28-7.31 (1H, m), 7.62 (1H, dd, J=2.4,7.8 Hz), 8.01 (1H, dd, J=4.9,8.8 Hz). white crystal m.p. 224.9°C
693	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.93 (3H, t, J=7.3 Hz), 0.98 (6H, d, J=6.8 Hz), 1.20-1.25 (1H, m), 1.51-1.53 (1H, m), 1.54 (1H, m), 1.86-1.91 (1H, m), 2.05-2.07 (1H, m), 3.51-3.54 (1H, m), 3.67-3.69 (1H, m), 3.84 (2H, d, J=6.3 Hz), 3.90 (1H, dd, J=6.3,8.8 Hz), 4.10-4.11 (1H, m), 5.16 (1H, m), 6.21 (1H, d, J=8.8 Hz), 7.28-7.31 (1H, m). white crystal m.p. 207.0°C
694	¹ H-NMR δ (CDCl ₃ , ppm): 0.79 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.93 (3H, t, J=7.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.22-1.26 (1H, m), 1.40 (9H, s), 1.51-1.54 (1H, m), 1.62 (1H, m), 2.04-2.06 (1H, m), 3.57-3.64 (2H, m), 3.79-3.83 (1H, m), 4.07-4.12 (1H, m), 4.98 (1H, m), 6.17 (1H, d, J=9.3 Hz), 7.25-7.30 (1H, m), 7.62 (1H, dd, J=2.4,7.8 Hz), 7.72 (1H, m), 8.00 (1H, dd, J=4.9,9.3 Hz). white crystal m.p. 208.8°C

Properties of Compound (47) in Table 2

Compound No.	Properties
695	¹ H-NMR δ (CDCl ₃ , ppm): 0.64-0.80 (6H, m), 0.94-1.01 (6H, m), 1.16-1.25 (1H, m), 1.55-1.76 (2H, m), 1.97-2.07 (1H, m), 3.46-3.57 (1H, m), 3.60 (3H x 1/3, s), 3.66 (3H x 2/3, s), 3.78-3.96 (2H, m), 4.14-4.22 (1H, m), 5.21 (1H, br), 6.34 (1H x 2/3, d), 6.73 (1H x 1/3, d), 7.60-7.65 (1H, m), 7.75-7.79 (1H, m), 7.87-7.89 (1H, m), 8.07-8.15 (1H, m), 8.28-8.35 (1H, m), 8.42 (1H x 1/3, d), 8.49 (1H x 2/3, br). white crystal m.p. 174.6°C
696	¹ H-NMR δ (CDCl ₃ , ppm): 0.66-0.80 (6H, m), 0.93-1.01 (6H, m), 1.16-1.26 (4H, m), 1.52-1.81 (2H, m), 1.97-2.04 (1H, m), 3.47-3.56 (1H, m), 3.80-3.96 (2H, m), 4.02-4.20 (3H, m), 5.20 (1H, d), 6.37 (1H, d), 7.60-7.64 (1H, m), 7.74-7.79 (1H, m), 7.84-7.88 (1H, m), 8.07-8.14 (1H, m), 8.26-8.33 (2H, m), 8.49 (1H, br). white crystal m.p. 170.7°C
697	¹ H-NMR δ (CDCl ₃ , ppm): 0.67 (3H, d, J=6.8 Hz), 0.78 (3H, d, J=6.8 Hz), 0.93-1.02 (6H, m), 1.14-1.26 (7H, m), 1.56-1.81 (2H, m), 1.98-2.04 (1H, m), 3.49-3.55 (1H, m), 3.76-3.94 (2H, m), 4.13-4.21 (1H, m), 4.84-4.89 (1H, m), 5.12 (1H, d), 6.27 (1H, d), 7.60-7.65 (1H, m), 7.75-7.79 (1H, m), 7.87-7.90 (1H, m), 8.07-8.12 (1H, m), 8.25-8.32 (2H, m), 8.50 (1H, br). white crystal m.p. 208.0°C
698	¹ H-NMR δ (CDCl ₃ , ppm): 0.66-1.01 (18H, m), 1.18-1.25 (1H, m), 1.54-2.04 (4H, m), 3.48-3.56 (2H, m), 3.74-3.94 (3H, m), 4.11-4.21 (1H, m), 5.20 (1H, d), 6.27 (1H, d), 7.60-7.65 (1H, m), 7.74-7.79 (1H, m), 7.87-7.90 (1H, m), 8.07-8.12 (1H, m), 8.25-8.33 (2H, m), 8.48 (1H, br). white crystal m.p. 180.8°C

699	¹H-NMR δ (CDCl₃, ppm): 0.69 (3H, d, J=6.8 Hz), 0.78 (3H, d, J=6.8 Hz), 0.93-1.08 (6H, m), 1.21-1.26 (1H, m), 1.38 (9H, s), 1.42 (9H, s), 1.55-1.68 (2H, m), 1.98-2.02 (1H, m), 3.53-3.58 (1H, m), 3.74-3.92 (2H, m), 4.13-4.19 (1H, m), 5.03 (1H, d, J=8.8 Hz), 6.25 (1H, d, J=8.3 Hz), 7.60-7.65 (1H, m), 7.74-7.78 (1H, m), 7.87-7.90 (1H, m), 8.07-8.14 (1H, m), 8.25-8.34 (2H, m), 8.49 (1H, br). white crystal m.p. 173.2°C
700	¹H-NMR δ (CDCl₃, ppm): 0.72-0.80 (6H, m), 0.94-1.05 (6H, m), 1.20-1.32 (1H, m), 1.56-1.74 (2H, m), 2.03-2.08 (1H, m), 3.48-3.94 (6H, m), 4.13-4.24 (1H, m), 5.18 (1H, br), 6.29 (1H, d, J=8.3 Hz), 7.84-7.90 (2H, m), 8.09-8.20 (2H, m), 8.27 (1H, d), 9.64 (1H, d, J=5.9 Hz). white crystal m.p. 177.7°C
701	¹H-NMR δ (CDCl₃, ppm): 0.71-0.83 (6H, m), 0.94-1.06 (6H, m), 1.17-1.32 (4H, m), 1.55-1.72 (2H, m), 2.02-2.08 (1H, m), 3.48-4.24 (6H, m), 5.12 (1H, br), 6.26 (1H, d, J=8.8 Hz), 7.84-7.90 (2H, m), 8.08-8.22 (2H, m), 8.26 (1H, br), 9.64 (1H, d, J=5.4 Hz). white crystal m.p. 179.5°C

Properties of Compound (48) in Table 2

Compo und No.	Properties
702	¹ H-NMR δ (CDCl ₃ , ppm): 0.72-0.82 (6H, m), 0.94-1.26 (13H, m), 1.55-1.83 (2H, m), 2.03-2.08 (1H, m), 3.48-3.93 (3H, m), 4.16-4.26 (1H, m), 4.84-4.93 (1H, m), 5.06 (1H, br), 6.23 (1H, d, J=8.8 Hz), 7.84-7.92 (2H, m), 8.08-8.21 (2H, m), 8.24 (1H, br), 9.64 (1H, d, J=5.4 Hz). white crystal m.p. 211.4°C
705	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.95 (3H, t, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 1.12-1.22 (1H, m), 1.49-1.55 (1H, m), 1.64-1.71 (1H, m), 2.00-2.05 (1H, m), 3.41-3.51 (1H, m), 3.64-3.66 (1H, m), 3.67 (3H, s), 3.89-3.93 (1H, m), 4.05-4.12 (1H, m), 5.22 (1H, br), 6.26 (1H, br), 7.44-7.49 (1H, m), 7.80-7.85 (1H, m), 8.05-8.11 (2H, m). white crystal: m.p. 174.7°C
706	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.97 (3H, t, J=6.8 Hz), 1.24 (3H, t, J=6.8 Hz), 1.50-1.53 (1H, m), 1.55-1.67 (2H, m), 1.99-2.05 (1H, m), 3.43-3.49 (1H, m), 3.70-3.75 (1H, m), 3.88-3.91 (1H, m), 4.05-4.14 (3H, m), 5.15 (1H, br), 6.22-6.24 (1H, m), 7.44-7.49 (1H, m), 7.81-7.85 (1H, m), 8.04 (1H, br), 8.08-8.11 (1H, m). white crystal: m.p. 161.8°C
707	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.97 (3H, t, J=6.8 Hz), 1.22 (6H, d, J=6.8 Hz), 1.52-1.58 (2H, m), 1.59-1.65 (1H, m), 1.99-2.06 (1H, m), 3.45-3.50 (1H, m), 3.55-3.69 (1H, m), 3.85-3.89 (1H, m), 4.05-4.12 (1H, m), 4.83-4.91 (1H, m), 5.10 (1H, br), 6.19-6.20 (1H, m), 7.44-7.52 (1H, m), 7.79-7.85 (1H, m), 8.04 (1H, br), 8.07-8.11 (1H, m). white crystal: m.p. 201.8°C

708	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.94 (6H, d, J=6.8 Hz), 0.96 (3H, t, J=6.8 Hz), 1.15-1.23 (1H, m), 1.60-1.71 (2H, m), 1.86-1.91 (1H, m), 1.96-2.05 (1H, m), 3.40-3.48 (1H, m), 3.66-3.71 (1H, m), 3.83-3.90 (3H, m), 4.07-4.09 (1H, m), 5.21 (1H, br), 6.21-6.23 (1H, m), 7.44-7.47 (1H, m), 7.81-7.83 (1H, m), 8.05 (1H, br), 8.06-8.10 (1H, m). white crystal: m.p. 171.8°C
709	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.97 (3H, t, J=6.8 Hz), 1.12-1.27 (1H, m), 1.43 (9H, s), 1.47-1.59 (1H, m), 1.65-1.67 (2H, m), 1.97-2.01 (1H, m), 3.48-3.54 (1H, m), 3.56-3.68 (1H, m), 3.78-3.81 (1H, m), 4.05-4.12 (1H, m), 5.02 (1H, br), 6.21 (1H, br), 7.44-7.48 (1H, m), 7.79-7.83 (1H, m), 8.04 (1H, br), 8.08-8.10 (1H, m). white crystal: m.p. 173.0°C
710	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 1.07 (9H, s), 1.96-2.04 (1H, m), 3.44-3.49 (1H, m), 3.56-3.67 (1H, m), 3.62 (3H, s), 3.87-3.91 (1H, m), 4.08-4.15 (1H, m), 5.18-5.20 (1H, m), 6.52 (1H, br), 6.64-6.66 (1H, m), 7.30 (1H, t, J=8.3 Hz), 7.41-7.47 (2H, m), 7.53 (1H, d, J=8.3 Hz), 7.67 (1H, d, J=8.3 Hz). white crystal: m.p. 189.5°C

Properties of Compound (49) in Table 2

Compo und No.	Properties
711	¹ H-NMR δ (CDCl ₃ , ppm): 0.72 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 1.01 (9/3H, s), 1.07 (9/3Hx2, s), 1.20-1.26 (3H, m), 1.96-1.98 (1/2H, m), 2.03-2.06 (1/2H, m), 3.55-3.66 (1H, m), 3.85-3.89 (1H, m), 4.04-4.14 (2H, m), 5.12-5.14 (1H, m), 6.45 (1H, br), 6.63-6.65 (1H, m), 7.28-7.32 (1H, m), 7.40-7.48 (2H, m), 7.52-7.54 (1H, m), 7.65-7.68 (1H, m). white crystal: m.p. 173.0°C
712	¹ H-NMR δ (CDCl ₃ , ppm): 0.69 (3/2H, d, J=6.8 Hz), 0.73 (3/2H, d, J=6.8 Hz), 0.77 (3/2H, d, J=6.3 Hz), 0.82 (3/2H, d, J=6.8 Hz), 1.01 (9/2H, s), 1.06 (9/2H, s), 1.13 (3/2H, d, J=5.8 Hz), 1.17 (3/2H, d, J=6.3 Hz), 1.19 (3/2H, d, J=5.8 Hz), 1.22 (3/2H, d, J=6.8 Hz), 1.93-1.98 (1/2H, m), 2.01-2.05 (1/2H, m), 3.59-3.65 (1/2H, m), 3.84-3.88 (1H, m), 4.00-4.05 (1/2H, m), 4.07-4.14 (1/2H, m), 6.06 (1/2H, br), 6.45 (1/2H, br), 6.63-6.65 (1/2H, br), 7.00 (1/2H, br), 7.28-7.32 (1H, m), 7.40-7.48 (2H, m), 7.52-7.54 (1H, m), 7.65-7.68 (1H, m). white crystal: m.p. 153.5°C
714	¹ H-NMR δ (CDCl ₃ , ppm): 0.68 (3/2H, d, J=6.8 Hz), 0.72 (3/2H, d, J=6.8 Hz), 0.80 (3/2H, d, J=6.8 Hz), 0.83 (3/2H, d, J=6.8 Hz), 1.01 (9/2H, s), 1.06 (9/2H, s), 1.42 (9/2H, s), 1.45 (9/2H, s), 1.96-1.98 (1/2H, m), 2.03-2.06 (1/2H, m), 3.43-3.61 (2H, m), 3.76-3.80 (1H, m), 4.00-4.11 (1H, m), 5.00 (1H, br), 6.45 (1/2H, br), 6.63 (1/2H, br), 7.29-7.32 (1H, m), 7.40-7.48 (2H, m), 7.52-7.54 (1H, m), 7.64-7.68 (1H, m). white crystal: m.p. 132.3°C

715	¹H-NMR δ (CDCl₃, ppm): 0.75 (3H, d, J=7.3 Hz), 0.85 (3H, d, J=6.8 Hz), 0.95 (3H, t, J=6.8 Hz), 1.00 (3H, t, J=6.8 Hz), 1.33-1.49 (5H, m), 2.04-2.07 (1H, m), 3.41-3.50 (1H, m), 3.60-3.64 (1H, m), 3.67 (3H, s), 3.87-3.91 (1H, m), 4.25-4.39 (1H, m), 5.18 (1H, br), 6.20 (1H, br), 6.60 (1H, br), 7.28-7.39 (1H, m), 7.43-7.51 (3H, m), 7.65-7.68 (1H, m). white crystal
716	¹H-NMR δ (CDCl₃, ppm): 0.75 (3H, d, J=7.3 Hz), 0.86 (3H, d, J=6.8 Hz), 0.96 (3H, t, J=6.8 Hz), 0.99 (3H, t, J=6.8 Hz), 1.19-1.25 (3H, m), 1.37-1.48 (4H, m), 1.60-1.75 (1H, m), 2.00-2.09 (1H, m), 3.41-3.50 (1H, m), 3.60-3.70 (1H, m), 3.91-3.99 (1H, m), 4.01-4.11 (1H, m), 4.25-4.39 (1H, m), 5.16 (1H, br), 6.18 (1H, br), 6.61 (1H, br), 7.28-7.39 (1H, m), 7.43-7.51 (1H, m), 7.65-7.68 (1H, m). white crystal

Properties of Compound (50) in Table 2

Compo und No.	Properties
734	¹ H-NMR δ (CDCl ₃ , ppm): 0.91-1.00 (6H, m), 1.16-1.28 (6H, m), 1.39 (3H, s), 1.43 (3H, s), 2.04-2.12 (1H, m), 3.71 (2H, d, J=5.9 Hz), 3.81 (1H, dd, J=6.4, 7.8 Hz), 4.85-4.92 (1H, m), 5.18 (1H, d, J=7.8 Hz), 6.33 (1H, br), 7.27-7.31 (1H, m), 7.42 (1H, dt, J=1.5, 7.3 Hz), 7.51-7.54 (2H, m), 7.62 (1H, t, J=6.3 Hz), 7.67 (1H, d, J=7.8 Hz). white crystal m.p. 106.1°C
749	¹ H-NMR δ (CDCl ₃ , ppm): 0.78-0.95 (6H, m), 1.18 (3H, t, J=7.3 Hz), 2.11-2.20 (1H, m), 3.82-4.10 (5H, m), 4.80-4.86 (1H, m), 5.07 (1H, br), 6.04-6.10 (1H, m), 7.10 (1H, br), 7.28-7.50 (4H, m), 7.66 (1H, d, J=7.8 Hz). white solid
762	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 1.00 (6H, d, J=6.8 Hz), 1.22 (6H, d, J=6.3 Hz), 1.89 (1H, m), 1.91 (1H, m), 3.52-3.69 (2H, m), 3.89-3.91 (1H, m), 4.05-4.07 (1H, m), 4.88-4.90 (1H, m), 5.10 (1H, m), 6.18 (1H, d, J=9.3 Hz), 7.47-7.56 (2H, m), 7.75 (1H, m), 7.96 (1H, d, J=7.8 Hz), 8.05 (1H, d, J=7.8 Hz). white solid

Properties of Compound (51) in Table 2

Compo und No.	Properties
763	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 0.99 (6H, d, J=6.8 Hz), 1.89-1.91 (2H, m), 2.05 (1H, m), 3.11 (2H, dd, J=7.3, 4.4 Hz), 3.50 (1H, m), 3.85 (2H, d, J=6.3 Hz), 4.10 (1H, m), 5.15 (1H, m), 6.20 (1H, m), 7.49-7.55 (2H, m), 7.75 (1H, m), 7.96 (1H, d, J=7.8 Hz), 8.06 (1H, d, J=8.9 Hz). white solid
764	¹ H-NMR δ (CDCl ₃ , ppm): 0.79 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.43 (9H, s), 1.87-1.92 (1H, m), 2.06 (1H, m), 3.59 (1H, dd, J=9.8, 4.4 Hz), 3.62-3.66 (1H, m), 3.79-3.83 (1H, m), 4.05-4.07 (1H, m), 5.00 (1H, m), 6.17 (1H, d, J=9.3 Hz), 7.47-7.57 (2H, m), 7.76 (1H, m), 7.96 (1H, d, J=7.8 Hz), 8.05 (1H, d, J=8.3 Hz). white solid
768	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 1.00 (6H, d, J=6.8 Hz), 1.87-1.92 (1H, m), 2.03-2.10 (1H, m), 3.48-3.56 (1H, m), 3.65-3.74 (4H, m), 3.91-4.06 (2H, m), 5.19 (1H, d), 6.18 (1H, d, J=9.3 Hz), 7.06 (1H, br), 7.27-7.31 (1H, m), 7.39-8.52 (3H, m), 7.67 (1H, d, J=7.8 Hz). white crystal m.p. 264.4°C
769	¹ H-NMR δ (CDCl ₃ , ppm): 0.79 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.21-1.25 (3H, m), 1.87-1.92 (1H, m), 2.05-2.10 (1H, m), 3.49-3.55 (1H, m), 3.64-3.69 (1H, m), 3.90-3.94 (1H, m), 4.00-4.14 (3H, m), 5.30 (1H, br), 6.22-6.24 (1H, br), 7.08-7.10 (1H, m), 7.27-7.32 (1H, m), 7.39-7.54 (3H, m), 7.65-7.68 (1H, m). white crystal m.p. 179.4°C

770	¹ H-NMR δ (CDCl ₃ , ppm): 0.65 (3H, d, J=6.8 Hz), 0.71 (3H, d, J=6.8 Hz), 0.84 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 1.73-1.77 (1H, m), 1.91-1.99 (1H, m), 3.30-3.37 (1H, m), 3.78-3.82 (1H, m), 3.92-3.97 (2H, m), 4.59-4.66 (2H, m), 7.31-7.34 (1H, m), 7.41-7.51 (2H, m), 7.61-7.64 (1H, m), 7.65-7.69 (2H, m), 7.75-7.77 (1H, m), 8.42-8.48 (1H, m). white crystal m.p. 259.8°C
771	¹ H-NMR δ (CDCl ₃ , ppm): 0.79 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.91 (3H, t, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.59-1.64 (2H, m), 1.86-1.93 (1H, m), 2.03-2.08 (1H, m), 3.50-3.53 (1H, m), 3.64-3.72 (1H, m), 3.90-3.94 (1H, m), 4.01 (2H, t, J=6.8 Hz), 4.04-4.07 (1H, m), 5.23 (1H, d, J=7.8 Hz), 6.36 (1H, d, J=8.8 Hz), 7.13 (1H, m), 7.28-7.30 (1H, m), 7.38-7.49 (3H, m), 7.64-7.66 (1H, m). white crystal m.p. 191.0°C
772	¹ H-NMR δ (CDCl ₃): 0.80 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.21 (6H, d, J=7.3 Hz), 1.89 (1H, q, J=6.8 Hz), 3.52-3.63 (2H, m), 3.87-3.91 (1H, m), 4.01-4.04 (1H, m), 4.88 (1H, q, J=7.3 Hz), 5.06 (1H, br), 6.14-6.16 (1H, m), 7.09 (1H, br), 7.27-7.28 (1H, m), 7.39-7.50 (3H, m), 7.65-7.67 (1H, m). white crystal m.p. 199.8°C

Properties of Compound (52) in Table 2

Compo und No.	Properties
773	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.79 (3H, d, $J=6.8$ Hz), 0.86 (3H, d, $J=6.8$ Hz), 0.90 (3H, t, $J=7.3$ Hz), 0.98 (3H, d, $J=7.3$ Hz), 1.00 (3H, d, $J=6.8$ Hz), 1.34-1.37 (2H, m), 1.55-1.59 (2H, m), 1.86-1.93 (1H, m), 2.03-2.08 (1H, m), 3.49-3.53 (1H, m), 3.63-3.71 (1H, m), 3.89-3.93 (1H, m), 3.99-4.06 (3H, m), 5.20 (1H, d, $J=8.3$ Hz), 6.30 (1H, d, $J=8.8$ Hz), 7.12 (1H, m), 7.28-7.30 (1H, m), 7.38-7.49 (3H, m), 7.64-7.66 (1H, m). white crystal m.p. 163.6°C
774	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.80 (3H, d, $J=6.8$ Hz), 0.86 (3H, d, $J=6.8$ Hz), 0.90 (3H, d, $J=6.8$ Hz), 0.92 (3H, d, $J=6.8$ Hz), 0.98 (3H, d, $J=6.8$ Hz), 1.00 (3H, d, $J=6.8$ Hz), 1.87-1.92 (2H, m), 2.06-2.08 (1H, m), 3.50-3.54 (1H, m), 3.63-3.68 (1H, m), 3.71-3.84 (2H, m), 3.85-3.90 (1H, m), 3.99-4.07 (1H, m), 5.19 (1H, br), 6.20 (1H, br), 7.12 (1H, br), 7.27-7.32 (1H, m), 7.39-7.54 (3H, m), 7.65-7.67 (1H, m). white crystal m.p. 179.1°C
775	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.82 (3H, d, $J=6.8$ Hz), 0.86 (3H, d, $J=6.8$ Hz), 0.99 (3H, d, $J=6.8$ Hz), 1.13 (3H, d, $J=6.8$ Hz), 1.43 (9H, s), 1.87-1.90 (1H, m), 2.03-2.10 (1H, m), 3.57-3.66 (2H, m), 3.82 (1H, q, $J=6.8$ Hz), 3.99-4.14 (1H, m), 5.00 (1H, br), 6.18 (1H, br), 7.09 (1H, br), 7.26-7.30 (1H, m), 7.38-7.50 (3H, m), 7.65-7.67 (1H, m). white crystal m.p. 148.5°C
776	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.77 (3H, d, $J=6.8$ Hz), 0.82 (3H, d, $J=6.8$ Hz), 0.88 (3H, d, $J=6.8$ Hz), 0.89 (3H, d, $J=6.8$ Hz), 1.73-1.79 (1H, m), 1.97-2.02 (1H, m), 3.36-3.41 (2H, m), 3.83-3.87 (1H, m), 3.94-3.96 (1H, m), 7.06-7.08 (2H, m), 7.18-7.20 (1H, m), 7.30-7.38 (3H, m), 7.43-7.47 (2H, m), 7.61-7.63 (1H, m), 7.69-7.81 (3H, m), 8.47 (1H, m). white crystal m.p. 172.3°C

777	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.3 Hz), 0.88 (3H, d, J=6.8 Hz), 0.94 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=7.3 Hz), 1.84-1.85 (1H, m), 2.02-2.04 (1H, m), 3.49-3.50 (2H, m), 3.92-3.96 (2H, m), 5.04-5.05 (2H, m), 6.71 (1H, d, J=8.8 Hz), 7.27-7.33 (4H, m), 7.38-7.42 (2H, m), 7.52-7.49 (2H, m), 7.51-7.68 (1H, m), 7.84 (2H, m), 7.96-7.99 (1H, m). white crystal m.p. 234.1°C
778	¹ H-NMR δ (CDCl ₃ , ppm): 0.69 (3H, d, J=6.8 Hz), 0.76 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 1.74-1.81 (1H, m), 1.83-1.95 (1H, m), 3.23 (3H, s), 3.45-3.48 (2H, m), 3.75-3.79 (1H, m), 3.89-3.99 (1H, m), 4.02-4.04 (2H, m), 7.11 (1H, d, J=8.8 Hz), 7.30-7.34 (1H, m), 7.43-7.49 (2H, m), 7.50-7.64 (2H, m), 7.75-7.77 (1H, m), 8.45 (1H, m). white crystal m.p. 245.3°C
779	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.3 Hz), 1.89 (1H, m), 2.05-2.06 (1H, m), 3.43-3.48 (1H, m), 3.71-3.79 (1H, m), 3.95-3.99 (1H, m), 4.05 (1H, m), 4.43-4.45 (1H, m), 4.76-4.78 (1H, m), 5.48 (1H, d, J=8.8 Hz), 6.33 (1H, d, J=8.8 Hz), 7.06 (1H, m), 7.13-7.18 (1H, m), 7.27-7.31 (1H, m), 7.39-7.49 (3H, m), 7.65-7.67 (1H, m). white crystal m.p. 192.7°C

Properties of Compound (53) in Table 2

Compo und No.	Properties
780	¹ H-NMR δ (CDCl ₃ , ppm): 0.65 (3H, d, J=6.8 Hz), 0.70 (3H, d, J=6.8 Hz), 0.75 (3H, d, J=6.8 Hz), 0.77 (3H, d, J=6.8 Hz), 1.73-1.78 (1H, m), 1.91-1.92 (1H, m), 3.86-3.87 (2H, m), 3.89-3.93 (2H, m), 4.44-4.45 (2H, d, J=4.9 Hz), 5.13-5.15 (1H, m), 5.24-5.29 (1H, m), 5.85-5.89 (1H, m), 7.14-7.16 (1H, m), 7.30-7.34 (1H, m), 7.43-7.51 (2H, m), 7.62-7.64 (2H, m), 7.75-7.77 (1H, m), 8.45 (1H, m). white crystal m.p. 238.4°C
781	¹ H-NMR δ (CDCl ₃ , ppm): 0.69 (3H, d, J=6.8 Hz), 0.76 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.3 Hz), 0.88 (3H, d, J=6.3 Hz), 1.74-1.78 (1H, m), 1.89-1.94 (1H, m), 3.47-3.48 (1H, m), 3.77-3.81 (1H, m), 3.89-3.97 (2H, m), 4.60-4.61 (2H, m), 7.31-7.34 (2H, m), 7.43-7.44 (1H, m), 7.47-7.51 (1H, m), 7.62-7.65 (2H, m), 7.75-7.77 (1H, m), 8.46 (1H, m). white crystal m.p. 200.4°C
782	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.3 Hz), 1.00 (3H, d, J=6.8 Hz), 1.87-1.92 (1H, m), 1.99-2.05 (1H, m), 2.06-2.17 (2H, m), 3.45-3.51 (1H, m), 3.63-3.75 (1H, m), 3.79-3.99 (5H, m), 4.00-4.06 (1H, m), 5.22-5.23 (1H, m), 6.24 (1H, d, J=8.8 Hz), 7.05 (1H, m), 7.27-7.31 (1H, m), 7.39-7.52 (3H, m), 7.65-7.67 (1H, m). white crystal m.p. 203.2°C
783	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.52-1.59 (1H, m), 1.86-1.98 (4H, m), 2.09-2.13 (1H, m), 3.54-3.56 (1H, m), 3.60-3.68 (1H, m), 3.77-3.79 (1H, m), 3.85-3.87 (1H, m), 3.91-3.99 (3H, m), 4.08-4.10 (1H, m), 4.15-4.18 (1H, m), 5.30 (1H, d, J=5.3 Hz), 6.26 (1H, m), 7.11 (1H, m), 7.28-7.30 (1H, m), 7.38-7.44 (2H, m), 7.48-7.50 (1H, m), 7.65-7.67 (1H, m). white crystal m.p. 178.8°C

784	$^1\text{H-NMR } \delta$ (CDCl_3, ppm): 0.79 (3H, d, $J=6.8$ Hz), 0.85 (3H, d, $J=4.8$ Hz), 0.99 (3H, d, $J=6.8$ Hz), 1.00 (3H, d, $J=6.3$ Hz), 1.61 (1H, m), 1.89-1.90 (1H, m), 2.01-2.09 (2H, m), 2.54 (1H, m), 3.51-3.54 (1H, m), 3.56-3.57 (1H, m), 3.73 (2H, d, $J=7.8$ Hz), 3.83 (2H, d, $J=6.8$ Hz), 3.95 (2H, t, $J=7.8$ Hz), 4.04-4.09 (2H, m), 5.25 (1H, m), 6.31 (1H, m), 7.08 (1H, m), 7.27-7.31 (1H, m), 7.39-7.52 (1H, m), 7.65-7.67 (1H, m). white crystal m.p. 171.0°C
785	$^1\text{H-NMR } \delta$ (CDCl_3, ppm): 0.02-0.05 (2H, m), 0.52-0.54 (2H, m), 0.80 (3H, d, $J=6.8$ Hz), 0.87 (3H, d, $J=6.8$ Hz), 0.98 (3H, d, $J=7.3$ Hz), 1.04-1.09 (1H, m), 1.00 (3H, d, $J=6.8$ Hz), 1.86-1.91 (1H, m), 2.04-2.10 (1H, m), 3.49-3.55 (1H, m), 3.63-3.69 (1H, m), 3.87-3.94 (3H, m), 3.99-4.05 (1H, m), 5.21 (1H, d, $J=7.8$ Hz), 6.25 (1H, d, $J=8.8$ Hz), 7.09-7.12 (1H, m), 7.27-7.30 (1H, m), 7.38-7.44 (2H, m), 7.47-7.50 (1H, m), 7.64-7.66 (1H, m). white crystal m.p. 197.5°C

Properties of Compound (54) in Table 2

Compo und No.	Properties
786	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.33 (6H, t, J=7.3 Hz), 1.85-1.90 (1H, m), 2.13-2.17 (1H, m), 3.57-3.64 (2H, m), 3.95-4.03 (2H, m), 4.24 (4H, q, J=7.3 Hz), 5.07-5.08 (2H, m), 5.49 (1H, d, J=7.3 Hz), 5.81 (1H, s), 6.30 (1H, d, J=8.8 Hz), 7.05 (1H, m), 7.27-7.29 (1H, m), 7.37-7.41 (2H, m), 7.47-7.49 (1H, m), 7.63-7.65 (1H, m). white crystal m.p. 188.1°C
787	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=7.3 Hz), 1.85-1.90 (1H, m), 2.03-2.09 (1H, m), 3.48-3.51 (1H, m), 3.63-3.71 (1H, m), 3.91-3.95 (1H, m), 4.01-4.03 (1H, m), 4.97 (2H, s), 5.24 (1H, d, J=7.8 Hz), 6.20 (1H, d, J=8.8 Hz), 6.42 (1H, m), 7.07 (1H, m), 7.28-7.30 (1H, m), 7.38-7.49 (5H, m), 7.64-7.66 (1H, m). white crystal m.p. 184.3°C
788	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (3H, d, J=6.3 Hz), 0.91 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=7.3 Hz), 1.05 (3H, d, J=7.3 Hz), 2.15-2.20 (1H, m), 2.50-2.60 (1H, m), 3.40-3.45 (1H, m), 3.85-3.88 (2H, m), 4.02-4.03 (1H, m), 4.43-4.47 (2H, m), 5.45 (1H, m), 7.20 (1H, m), 7.28-7.30 (2H, m), 7.39-7.49 (3H, m), 7.62-7.64 (1H, m). white solid
790	¹ H-NMR δ (CDCl ₃): 0.79 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.99 (6H, d, J=6.8 Hz), 1.24-1.29 (3H, m), 1.86-1.92 (1H, m), 2.03-2.07 (1H, m), 2.84-2.93 (2H, m), 3.47-3.53 (1H, m), 3.64-3.73 (1H, m), 3.99-4.06 (1H, m), 4.11-4.17 (1H, m), 5.87 (1H, d, J=8.3 Hz), 6.14 (1H, d, J=8.3 Hz), 7.05 (1H, br), 7.27-7.31 (1H, m), 7.39-7.50 (3H, m), 7.66 (1H, d, J=7.8 Hz). white crystal m.p. 182.1°C

791	¹ H-NMR δ (CDCl ₃): 0.79 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 1.00 (6H, t, J=6.8 Hz), 1.31 (3H, d, J=6.8 Hz), 1.32 (3H, d, J=6.8 Hz), 1.85-1.94 (1H, m), 2.02-2.07 (1H, m), 3.48-3.71 (3H, m), 3.99-4.07 (1H, m), 4.13-4.18 (1H, m), 5.81 (1H, d, J=8.3 Hz), 6.13 (1H, d, J=8.3 Hz), 7.06 (1H, br), 7.27-7.31 (1H, m), 7.38-7.50 (3H, m), 7.66 (1H, d, J=7.8 Hz). white crystal m.p. 202.1°C
795	¹ H-NMR δ (CDCl ₃): 0.85 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.20-1.25 (3H, m), 1.88-1.90 (1H, m), 2.11-2.15 (1H, m), 3.48-3.52 (2H, m), 3.88-3.91 (2H, m), 4.08-4.13 (2H, m), 5.05 (1H, br), 6.02 (2H, s), 6.18 (1H, br), 6.81 (2H, d, J=7.8 Hz), 6.94 (1H, br), 7.31-7.34 (2H, m). white crystal m.p. 195.0°C
796	¹ H-NMR δ (CDCl ₃): 0.86 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.20-1.24 (6H, m), 1.88-1.90 (1H, m), 2.12-2.14 (1H, m), 3.45-3.50 (1H, m), 3.52-3.60 (1H, m), 3.87-3.95 (2H, m), 4.86-4.89 (1H, m), 5.02 (1H, br), 6.02 (2H, s), 6.18 (1H, br), 6.81 (1H, d, J=7.8 Hz), 6.97-6.99 (1H, m), 7.33-7.35 (2H, m). white crystal m.p. 217.9°C

Properties of Compound (55) in Table 2

Compo und No.	Properties
797	¹ H-NMR δ (CDCl ₃): 0.86 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.87-1.90 (2H, m), 2.11-2.13 (1H, m), 3.53-3.57 (2H, m), 3.82-3.94 (4H, m), 5.07 (1H, br), 6.01 (2H, s), 6.18 (1H, br), 6.81 (1H, d, J=7.8 Hz), 6.94 (1H, br), 7.31-7.34 (2H, m). white crystal m.p. 203.9°C
798	¹ H-NMR δ (CDCl ₃): 0.87 (3H, d, J=6.8 Hz), 0.89 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.88-1.90 (1H, m), 2.12-2.14 (1H, m), 3.40-3.45 (1H, m), 3.60-3.70 (1H, m), 3.83 (1H, t, J=7.3 Hz), 3.80-4.00 (1H, m), 4.97 (1H, br), 6.01 (2H, s), 6.18 (1H, br), 6.81 (1H, d, J=7.8 Hz), 7.05 (1H, br), 7.34-7.36 (2H, m). white crystal m.p. 170.1°C
799	¹ H-NMR δ (CDCl ₃): 0.89 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.22-1.25 (3H, m), 1.87-1.92 (1H, m), 2.14-2.19 (1H, m), 3.38-3.45 (1H, m), 3.67-3.75 (1H, m), 3.93-4.01 (2H, m), 4.08-4.14 (2H, m), 5.06 (1H, br), 6.18 (1H, br), 7.08-7.12 (1H, m), 7.59-7.62 (2H, m). white crystal m.p. 195.6°C
800	¹ H-NMR δ (CDCl ₃): 0.90 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.22 (3H, d, J=6.8 Hz), 1.23 (3H, d, J=6.8 Hz), 1.87-1.92 (1H, m), 2.15-2.20 (1H, m), 3.27-3.45 (1H, m), 3.70-3.87 (1H, m), 3.89-3.97 (3H, m), 4.83-4.90 (1H, m), 4.99 (1H, br), 6.18 (1H, br), 7.08 (1H, d, J=8.3 Hz), 7.30 (1H, br), 7.61 (2H, d, J=8.3). white crystal m.p. 215.2°C
801	¹ H-NMR δ (CDCl ₃): 0.90 (6H, d, J=6.8 Hz), 0.92 (6H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.87-1.92 (2H, m), 2.15-2.17 (1H, m), 3.25-3.45 (1H, m), 3.60-3.70 (1H, m), 3.83-3.97 (4H, m), 5.08 (1H, br), 6.19 (1H, br), 7.08 (1H, d, J=7.8 Hz), 7.29 (1H, br), 7.59-7.61 (2H, m). white crystal m.p. 199.9°C

803	¹H-NMR δ (CDCl₃): 0.82 (3H, d, J=6.4 Hz), 0.87 (3H, d, J=6.4 Hz), 0.99 (6H, t, J=6.8 Hz), 1.21-1.25 (3H, m), 1.84-1.90 (1H, m), 2.08-2.14 (1H, m), 3.53-3.61 (2H, m), 3.86-3.90 (1H, m), 3.98-4.06 (1H, m), 4.09-4.14 (2H, m), 5.07 (1H, br), 6.14 (1H, d, J=8.3 Hz), 7.30 (1H, br), 7.54 (1H, s), 7.60 (1H, d, J=9.3 Hz), 8.31 (1H, dd, J=2.4, 9.3 Hz), 8.60 (1H, d, J=2.4 Hz). white crystal m.p. 233.3°C
804	¹H-NMR δ (CDCl₃): 0.83 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.99 (6H, t, J=6.8 Hz), 1.21 (6H, t, J=6.3 Hz), 1.87-1.91 (1H, m), 2.08-2.14 (1H, m), 3.48-3.67 (2H, m), 3.85-3.89 (1H, m), 3.98-4.04 (1H, m), 4.87-4.92 (1H, m), 4.97-5.00 (1H, m), 6.12 (1H, d, J=8.3 Hz), 7.34 (1H, br), 7.54 (1H, s), 7.60 (1H, d, J=9.3 Hz), 8.31 (1H, dd, J=2.4, 9.3 Hz), 8.60 (1H, d, J=2.4 Hz). white crystal m.p. 261.5°C

Properties of Compound (56) in Table 2

Compo und No.	Properties
805	¹ H-NMR δ (CDCl ₃): 0.83 (3H, d, J=6.8 Hz), 0.87-0.90 (9H, m), 0.99 (6H, t, J=7.3 Hz), 1.87-1.92 (1H, m), 2.08-2.13 (1H, m), 3.52-3.64 (2H, m), 3.82-3.90 (4H, m), 3.97-4.02 (1H, m), 5.08-5.10 (1H, m), 6.11 (1H, d, J=7.8 Hz), 7.30 (1H, br), 7.54 (1H, s), 7.60 (1H, d, J=9.3 Hz), 8.32 (1H, dd, J=2.4, 9.3 Hz), 8.60 (1H, d, J=2.4 Hz). white crystal m.p. 240.1°C
807	¹ H-NMR δ (CDCl ₃): 0.79 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.99 (6H, t, J=6.8 Hz), 1.22-1.28 (3H, m), 1.85-1.93 (1H, m), 2.03-2.11 (1H, m), 3.47-3.53 (1H, m), 3.63-3.71 (1H, m), 3.85 (3H, s), 3.89-4.15 (4H, m), 5.15 (1H, d, J=7.8 Hz), 6.19 (1H, d, J=8.8 Hz), 7.00-7.07 (3H, m), 7.36-7.38 (2H, m). white crystal m.p. 206.3°C
808	¹ H-NMR δ (CDCl ₃): 0.80 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 1.00 (6H, t, J=6.8 Hz), 1.22 (6H, t, J=6.8 Hz), 1.86-1.91 (1H, m), 2.05-2.10 (1H, m), 3.50-3.68 (2H, m), 3.85 (3H, s), 3.86-3.91 (1H, m), 3.97-4.05 (1H, m), 4.86-4.92 (1H, m), 5.05 (1H, br-d), 6.14 (1H, d, J=9.3 Hz), 7.00-7.07 (3H, m), 7.36-7.38 (2H, m). white crystal m.p. 227.2°C
809	¹ H-NMR δ (CDCl ₃): 0.80 (6H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.99 (6H, t, J=6.8 Hz), 1.85-1.92 (2H, m), 2.04-2.08 (1H, m), 3.48-3.53 (1H, m), 3.62-3.70 (1H, m), 3.85 (3H, s), 3.88-3.92 (3H, m), 4.00-4.06 (1H, m), 5.16 (1H, br-d), 6.16 (1H, d, J=8.3 Hz), 7.00-7.07 (3H, m), 7.36-7.38 (2H, m). white crystal m.p. 203.9°C
811	¹ H-NMR □δ (CDCl ₃): 0.81 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 1.00 (6H, t, J=6.8 Hz), 1.22-1.28 (3H, m), 1.86-1.92 (1H, m), 2.06-2.12 (1H, m), 3.52-3.65 (2H, m), 3.87-3.92 (1H, m), 3.99-4.20 (3H, m), 5.11 (1H, d), 6.12 (1H, d, J=8.3 Hz), 7.12 (1H, br), 7.35-7.44 (3H, m), 7.64 (1H, s). white crystal m.p. 217.6°C

812	¹ H-NMR δ (CDCl ₃): 0.82 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 1.00 (6H, t, J=6.8 Hz), 1.18-1.24 (6H, m), 1.84-1.93 (1H, m), 2.05-2.12 (1H, m), 3.53-3.62 (2H, m), 3.86-3.93 (1H, m), 3.97-4.05 (1H, m), 4.85-4.93 (1H, m), 5.04 (1H, d, J=7.3 Hz), 6.14 (1H, d, J=8.8 Hz), 7.15 (1H, br), 7.35-7.45 (3H, m), 7.64 (1H, s). white crystal m.p. 243.3°C
813	¹ H-NMR δ (CDCl ₃): 0.82 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.89-1.01 (12H, m), 1.86-1.98 (2H, m), 2.05-2.11 (1H, m), 3.52-3.67 (2H, m), 3.84-3.92 (3H, m), 3.98-4.05 (1H, m), 5.14 (1H, d, J=7.3 Hz), 6.15 (1H, d, J=7.8 Hz), 7.14 (1H, br), 7.35-7.45 (3H, m), 7.64 (1H, s). white crystal m.p. 225.9°C
815	¹ H-NMR δ (CDCl ₃): 0.74 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.99 (6H, t, J=6.8 Hz), 1.23 (3H, t, J=7.3 Hz), 1.85-1.94 (1H, m), 2.01-2.09 (1H, m), 2.61 (3H, s), 3.42-3.48 (1H, m), 3.67-3.75 (1H, m), 3.91-4.16 (4H, m), 5.18 (1H, d, J=8.3 Hz), 6.19 (1H, d, J=9.3 Hz), 6.97 (1H, bt-t, J=5.9 Hz), 7.27-7.33 (1H, m), 7.40-7.45 (2H, m), 7.61 (1H, d, J=7.8 Hz). white crystal m.p. 197.8°C

Properties of Compound (57) in Table 2

Compo und No.	Properties
816	$^1\text{H-NMR } \delta$ (CDCl_3): 0.75 (3H, d, $J=6.3$ Hz), 0.85 (3H, d, $J=6.3$ Hz), 0.98 (3H, d, $J=5.9$ Hz), 1.00 (3H, d, $J=5.9$ Hz), 1.21 (6H, t, $J=6.8$ Hz), 1.87-1.92 (1H, m), 2.02-2.08 (1H, m), 2.61 (3H, s), 3.43-3.50 (1H, m), 3.64-3.72 (1H, m), 3.90 (1H, dd, $J=6.3, 8.8$ Hz), 3.98-4.06 (1H, m), 4.85-4.91 (1H, m), 5.10 (1H, d, $J=7.8$ Hz), 6.14 (1H, d, $J=8.8$ Hz), 6.98 (1H, br-t), 7.27-7.31 (1H, m), 7.38-7.44 (2H, m), 7.61 (1H, d, $J=7.8$ Hz). white crystal m.p. 201.9°C
817	$^1\text{H-NMR } \delta$ (CDCl_3): 0.75 (3H, d, $J=6.8$ Hz), 0.84-0.96 (9H, m), 0.99 (6H, t, $J=6.8$ Hz), 1.86-1.93 (2H, m), 2.03-2.07 (1H, m), 2.61 (3H, s), 3.42-3.47 (1H, m), 3.66-3.74 (1H, m), 3.82-3.94 (3H, m), 3.98-4.06 (1H, m), 5.19 (1H, d, $J=8.8$ Hz), 6.15 (1H, d, $J=7.3$ Hz), 6.97 (1H, br), 7.27-7.31 (1H, m), 7.39-7.44 (2H, m), 7.61 (1H, d, $J=7.8$ Hz). white crystal m.p. 179.9°C
818	$^1\text{H-NMR } \delta$ (CDCl_3): 0.77 (3H, d, $J=6.8$ Hz), 0.85 (3H, d, $J=6.8$ Hz), 1.00 (6H, t, $J=6.3$ Hz), 1.42 (9H, s), 1.85-1.92 (1H, m), 2.01-2.06 (1H, m), 2.61 (3H, s), 3.48-3.54 (1H, m), 3.59-3.67 (1H, m), 3.81-3.85 (1H, m), 3.98-4.06 (1H, m), 5.00 (1H, br), 6.14 (1H, d, $J=8.8$ Hz), 7.00 (1H, br), 7.27-7.31 (1H, m), 7.38-7.45 (2H, m), 7.60 (1H, d, $J=7.8$ Hz). white crystal m.p. 188.7°C
820	white crystal m.p. 181.3°C APCI-MS M^+ : 434.
823	$^1\text{H-NMR } \delta$ (CDCl_3): 0.84 (3H, d, $J=6.8$ Hz), 0.90 (3H, d, $J=6.8$ Hz), 0.98 (3H, d, $J=6.8$ Hz), 1.00 (3H, d, $J=6.8$ Hz), 1.20-1.27 (3H, m), 1.88-1.91 (1H, m), 2.10-2.15 (1H, m), 3.47-3.66 (2H, m), 3.87-3.97 (2H, m), 4.06-4.12 (2H, m), 5.08 (1H, br), 6.16 (1H, d, $J=7.8$ Hz), 7.18 (1H, br), 7.34-7.41 (2H, m), 7.77 (1H, s), 7.80-7.84 (2H, m). white crystal m.p. 204.0°C

824	¹ H-NMR δ (CDCl ₃): 0.87 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.99-1.03 (6H, m), 1.19-1.28 (6H, m), 1.88-1.94 (1H, m), 2.12-2.18 (1H, m), 3.47-3.54 (1H, m), 3.65-3.72 (1H, m), 3.87-4.00 (2H, m), 4.84-4.92 (1H, m), 5.04 (1H, br), 6.18 (1H, d, J=8.3 Hz), 7.26 (1H, br), 7.36-7.43 (2H, m), 7.80 (1H, s), 7.82-7.86 (2H, m). white crystal m.p. 231.3°C
825	¹ H-NMR δ (CDCl ₃): 0.84-0.92 (12H, m), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.84-1.92 (2H, m), 2.12-2.16 (1H, m), 3.48-3.56 (1H, m), 3.62-3.67 (1H, m), 3.82 (2H, d, J=6.3 Hz), 3.87-3.99 (2H, m), 5.10 (1H, br), 6.17 (1H, d), 7.19 (1H, br), 7.34-7.40 (2H, m), 7.77 (1H, s), 7.80-7.84 (2H, m). white crystal m.p. 213.0°C
827	¹ H-NMR δ (CDCl ₃): 0.83 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 1.00 (6H, t, J=6.8 Hz), 1.25 (3H, t, J=6.8 Hz), 1.85-1.94 (1H, m), 2.04-2.14 (1H, m), 3.50-3.55 (1H, m), 3.61-3.69 (1H, m), 3.92-4.04 (2H, m), 4.11-4.16 (2H, m), 5.53 (1H, d, J=8.8 Hz), 6.98 (2H, br), 7.08-7.13 (1H, m), 7.22-7.27 (1H, m), 7.44 (1H, d, J=8.3 Hz), 7.46 (1H, br), 7.63 (1H, d, J=7.8 Hz), 9.89 (1H, br). white crystal m.p. 239.5°C

Properties of Compound (58) in Table 2

Compo und No.	Properties
828	¹ H-NMR δ (CDCl ₃): 0.86 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.22-1.28 (6H, m), 1.87-1.94 (1H, m), 2.13-2.19 (1H, m), 3.50-3.70 (2H, m), 3.91-4.00 (2H, m), 4.92-4.97 (1H, m), 5.05 (1H, br), 6.32 (1H, d, J=7.8 Hz), 6.94 (1H, br), 7.11-7.16 (2H, m), 7.24-7.29 (1H, m), 7.42 (1H, d, J=8.8 Hz), 7.65 (1H, d, J=7.3 Hz), 9.31 (1H, br). white crystal m.p. 251.6°C
829	¹ H-NMR δ (CDCl ₃): 0.82 (6H, d, J=6.8 Hz), 0.92 (6H, d), 1.01 (6H, t, J=6.8 Hz), 1.88-1.98 (2H, m), 2.05-2.17 (1H, m), 3.52-3.72 (2H, m), 3.86-4.04 (4H, m), 5.22 (1H, d, J=8.3 Hz), 6.65 (1H, d, J=8.8 Hz), 6.92 (1H, br), 7.08-7.15 (2H, m), 7.24-7.30 (1H, m), 7.43 (1H, d, J=8.3 Hz), 7.63 (1H, d, J=8.3 Hz), 9.63 (1H, br). white crystal m.p. 235.1°C
831	¹ H-NMR δ (CDCl ₃): 0.86 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.22-1.28 (3H, m), 1.86-1.95 (1H, m), 2.12-2.18 (1H, m), 3.46-3.68 (2H, m), 3.88-4.15 (7H, m), 5.10 (1H, br), 6.18 (1H, d, J=7.8 Hz), 6.92 (1H, s), 7.05 (1H, br), 7.10-7.15 (1H, m), 7.28-7.39 (2H, m), 7.63 (1H, d, J=7.8 Hz). white crystal m.p. 209.4°C
832	¹ H-NMR δ (CDCl ₃): 0.87 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.16-1.28 (6H, m), 1.88-1.93 (1H, m), 2.12-2.17 (1H, m), 3.43-3.50 (1H, m), 3.61-3.68 (1H, m), 3.88-4.01 (2H, m), 4.06 (3H, m), 4.84-4.91 (1H, m), 5.05 (1H, br), 6.20 (1H, d, J=8.8 Hz), 6.93 (1H, s), 7.10-7.15 (2H, m). white crystal m.p. 229.1°C

834	¹ H-NMR δ (CDCl ₃): 0.84-1.14 (18H, m), 1.87-1.94 (2H, m), 2.15-2.19 (1H, m), 3.49-3.68 (2H, m), 3.82-4.03 (4H, m), 4.06 (3H, s), 5.15 (1H, br), 6.20 (1H, br), 6.92 (1H, s), 7.06 (1H, br), 7.10-7.15 (1H, m), 7.28-7.38 (2H, m), 7.63 (1H, d, J=7.8 Hz). white crystal m.p. 214.4°C
836	¹ H-NMR δ (CDCl ₃): 0.68 (6H, t, J=6.3 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.28 (3H, t, J=7.3 Hz), 1.89-1.95 (2H, m), 3.33-3.37 (1H, m), 4.04-4.24 (4H, m), 5.54 (1H, d, J=7.8 Hz), 7.30-7.36 (3H, m), 7.42 (1H, d, J=8.8 Hz), 7.54 (1H, d, J=8.3 Hz), 7.75 (1H, d, J=7.8 Hz), 8.15 (1H, br), 11.93 (1H, br).
837	¹ H-NMR δ (CDCl ₃): 0.65 (3H, d, J=6.8 Hz), 0.68 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.03 (3H, d, J=6.8 Hz), 1.24 (3H, d, J=6.4 Hz), 1.30 (3H, d, J=6.4 Hz), 1.86-1.95 (2H, m), 3.32-3.38 (1H, m), 4.03-4.23 (3H, m), 4.95-5.02 (1H, m), 5.50 (1H, d, J=9.8 Hz), 7.28-7.35 (2H, m), 7.50-7.54 (2H, m), 7.74 (1H, d, J=7.8 Hz), 8.15 (1H, d, J=6.4 Hz), 12.03 (1H, s).
840	¹ H-NMR δ (CDCl ₃): 0.86 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.03 (3H, d, J=6.8 Hz), 1.25 (3H, q, J=7.3 Hz), 1.88-1.95 (1H, m), 2.12-2.18 (1H, m), 3.50-3.60 (1H, m), 3.67-3.73 (1H, m), 3.88-4.13 (4H, m), 5.07 (1H, d), 6.21 (1H, d, J=8.8 Hz), 7.33 (1H, br), 7.91-7.94 (1H, m), 8.16 (1H, d, J=8.3 Hz), 8.53 (1H, d, J=1.5 Hz), 9.11 (1H, s). white crystal m.p. 205.7°C

Properties of Compound (59) in Table 2

Compo und No.	Properties
841	¹ H-NMR δ (CDCl ₃): 0.86 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.03 (3H, d, J=6.8 Hz), 1.12-1.28 (6H, m), 1.89-1.95 (1H, m), 2.12-2.17 (1H, m), 3.47-3.54 (1H, m), 3.70-3.75 (1H, m), 3.90-4.03 (2H, m), 4.82-4.88 (1H, m), 5.05 (1H, br), 6.25 (1H, d, J=8.3 Hz), 7.39 (1H, br), 7.91-7.95 (1H, m), 8.16 (1H, d, J=8.8 Hz), 8.53 (1H, d, J=1.5 Hz), 9.11 (1H, s). white crystal m.p. 200.0°C
842	¹ H-NMR δ (CDCl ₃): 0.80-0.91 (12H, m), 1.01 (3H, d, J=6.8 Hz), 1.03 (3H, d, J=6.8 Hz), 1.88-1.97 (1H, m), 2.13-2.18 (1H, m), 3.50-4.03 (6H, m), 5.13 (1H, d), 6.27 (1H, d, J=7.8 Hz), 7.36 (1H, br), 7.89-7.94 (1H, m), 8.15 (1H, d, J=8.3 Hz), 8.52 (1H, d, J=1.5 Hz), 9.11 (1H, s). white crystal m.p. 180.3°C
844	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.86-1.91 (1H, m), 2.04-2.09 (1H, m), 3.50-3.55 (1H, m), 3.68 (3H, s), 3.70-3.75 (1H, m), 3.91-3.95 (1H, m), 4.05-4.07 (1H, m), 5.25 (1H, d, J=7.3 Hz), 6.32 (1H, d, J=8.8 Hz), 7.28-7.31 (1H, m), 7.61-7.64 (1H, m), 7.72-7.73 (1H, m), 7.98-8.02 (1H, m). white solid
845	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 1.21 (3H, t, J=6.8 Hz), 1.84-1.88 (1H, m), 2.03-2.05 (1H, m), 3.49-3.54 (1H, m), 3.65-3.67 (1H, m), 3.88-3.92 (1H, m), 4.03-4.12 (3H, m), 5.17 (1H, d, J=7.8 Hz), 6.24 (1H, d, J=8.3 Hz), 7.25-7.28 (1H, m), 7.60 (1H, dd, J=2.4, 8.3 Hz), 7.70 (1H, m), 7.97 (1H, dd, J=4.9, 9.3 Hz). white crystal m.p. 203.1°C

846	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.3 Hz), 0.83 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=7.3 Hz), 1.19 (6H, d, J=5.9 Hz), 1.83-1.89 (1H, m), 2.03-2.04 (1H, m), 3.50-3.54 (1H, m), 3.63-3.65 (1H, m), 3.86-3.90 (1H, m), 4.04 (1H, m), 4.84-4.89 (1H, m), 5.09 (1H, d, J=7.3 Hz), 6.22 (1H, d, J=8.3 Hz), 7.25-7.28 (1H, m), 7.60 (1H, dd, J=2.4,8.3 Hz), 7.70 (1H, m), 7.97 (1H, dd, J=4.9,8.8 Hz). white crystal m.p. 220.8°C
847	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.87 (6H, d, J=6.3 Hz), 0.95 (3H, d, J=7.8 Hz), 0.97 (3H, d, J=6.8 Hz), 1.85-1.88 (2H, m), 2.02-2.04 (1H, m), 3.50-3.53 (1H, m), 3.61-3.66 (1H, m), 3.82 (2H, d, J=6.3 Hz), 3.90 (1H, dd, J=6.3,8.3 Hz), 4.03 (1H, m), 5.20 (1H, d, J=7.3 Hz), 6.23 (1H, d, J=8.3 Hz), 7.22-7.27 (1H, m), 7.60 (1H, dd, J=2.4,7.8 Hz), 7.71 (1H, m), 7.97 (1H, dd, J=4.9,9.3 Hz). white crystal m.p. 187.6°C
848	¹ H-NMR δ (CDCl ₃ , ppm): 0.80 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.43 (9H, s), 1.86-1.91 (1H, m), 2.05-2.06 (1H, m), 3.55-3.59 (1H, m), 3.62-3.63 (1H, m), 3.79-3.83 (1H, m), 4.04-4.06 (1H, m), 4.97 (1H, m), 6.15 (1H, d, J=9.3 Hz), 7.29 (1H, dd, J=2.4,9.2 Hz), 7.61-7.64 (1H, m), 7.71 (1H, m), 8.10 (1H, dd, J=4.9,8.8 Hz). white crystal m.p. 204.7°C

Properties of Compound (60) in Table 2

Compo und No.	Properties
851	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.90-1.02 (12H, m), 1.20-1.25 (6H, m), 1.88-1.93 (1H, m), 2.17-2.23 (1H, m), 3.20-3.26 (1H, m), 3.76-3.94 (3H, m), 4.89-4.93 (1H, m), 5.01 (1H, br), 6.16 (1H, d), 7.06 (1H, s), 7.43-7.46 (2H, m), 8.20 (1H, s). white solid
855	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.78 (3H, d, $J=6.8$ Hz), 0.84 (3H, d, $J=6.8$ Hz), 1.00 (3H, d, $J=6.8$ Hz), 1.02 (3H, d, $J=6.8$ Hz), 1.21 (6H, d, $J=6.3$ Hz), 1.86-1.93 (1H, m), 2.02-2.10 (1H, m), 3.62-3.66 (2H, m), 3.86-3.91 (1H, m), 4.01-4.08 (1H, m), 4.87-4.93 (1H, m), 5.08 (1H, s), 6.17 (1H, d, $J=8.8$ Hz), 7.16-7.21 (1H, m), 7.34-7.42 (2H, m), 7.64 (1H, d, $J=8.8$ Hz), 8.03 (1H, d, $J=7.8$ Hz). white crystal m.p. 195.5°C
858	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.68 (3H, d, $J=6.8$ Hz), 0.83 (3H, d, $J=6.8$ Hz), 0.99 (3H, d, $J=6.8$ Hz), 1.00 (3H, d, $J=6.8$ Hz), 1.24 (3H, t, $J=6.8$ Hz), 1.88-1.96 (1H, m), 2.03-2.08 (1H, m), 2.65 (3H, s), 2.79 (3H, s), 3.39-3.45 (1H, m), 3.80-3.88 (1H, m), 3.94-4.08 (2H, m), 4.09-4.13 (2H, m), 5.17-5.19 (1H, m), 6.56-6.57 (1H, m), 6.72 (1H, s), 8.23 (1H, br), 8.57 (1H, s). white crystal m.p 221.5°C
859	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.68 (3H, d, $J=6.8$ Hz), 0.81 (3H, d, $J=6.8$ Hz), 0.98 (3H, d, $J=6.8$ Hz), 1.00 (3H, d, $J=6.8$ Hz), 1.21 (6H, d, $J=6.8$ Hz), 1.89-1.93 (1H, m), 2.01-2.06 (1H, m), 2.65 (3H, s), 2.79 (3H, s), 3.40-3.46 (1H, m), 3.81-3.86 (1H, m), 3.92-4.05 (2H, m), 4.81-4.92 (1H, m), 6.51-6.53 (1H, m), 6.71-6.73 (1H, m), 8.22-8.26 (1H, m), 8.58 (1H, s). white crystal m.p 228.8°C

860	^1H-NMR δ (CDCl_3, ppm): 0.69 (3H, d, $J=6.8$ Hz), 0.82 (3H, d, $J=6.8$ Hz), 0.90 (6H, d, $J=6.8$ Hz), 0.98 (3H, d, $J=6.8$ Hz), 1.87-1.92 (2H, m), 2.02-2.06 (1H, m), 2.65 (3H, s), 2.79 (3H, s), 3.41-3.44 (1H, m), 3.83-3.87 (3H, m), 3.94-4.05 (2H, m), 5.20 (1H, d, $J=8.8$ Hz), 6.53 (1H, br), 6.71 (1H, s), 8.23 (1H, br), 8.58 (1H, s). white crystal m.p 228.3°C
861	^1H-NMR δ (CDCl_3, ppm): 0.70 (3H, d, $J=6.8$ Hz), 0.80 (3H, d, $J=6.8$ Hz), 0.99 (3H, d, $J=6.8$ Hz), 1.00 (3H, d, $J=6.8$ Hz), 1.42 (9H, s), 1.89-1.94 (1H, m), 1.97-2.04 (1H, m), 2.65 (3H, s), 2.79 (3H, s), 3.43-3.48 (1H, m), 3.76-3.88 (2H, m), 3.98-4.05 (1H, m), 5.02-5.04 (1H, m), 6.45 (1H, d, $J=7.8$ Hz), 7.00 (1H, s), 8.21 (1H, br), 8.58 (1H, s). white crystal m.p 216.3°C
862	^1H-NMR δ (CDCl_3, ppm): 0.80 (3H, d, $J=6.8$ Hz), 0.85 (3H, d, $J=6.8$ Hz), 0.90 (6H, d, $J=6.8$ Hz), 1.04 (3H, d, $J=6.8$ Hz), 1.22 (3H, t, $J=6.8$ Hz), 1.95-2.01 (1H, m), 2.03-2.11 (1H, m), 2.71 (3H, s), 2.87 (3H, s), 3.46-3.50 (1H, m), 3.52-3.61 (1H, m), 3.89-4.00 (1H, m), 4.09 (2H, q, $J=7.3$ Hz), 4.12-4.14 (1H, m), 5.15-5.17 (1H, m), 6.73 (1H, br), 6.92 (1H, d, $J=8.3$ Hz), 7.54 (1H, br). white crystal m.p 190.1°C

Properties of Compound (61) in Table 2

Compo und No.	Properties
863	¹ H-NMR δ (CDCl ₃ , ppm): 0.79 (3H, d, J=6.8 Hz), 0.81 (3H, d, J=6.8 Hz), 0.98 (6H, d, J=6.8 Hz), 1.04 (3H, d, J=6.8 Hz), 1.22 (6H, d, J=6.8 Hz), 1.96-2.10 (2H, m), 2.70 (3H, s), 2.87 (3H, s), 3.56-3.61 (1H, m), 3.91-4.10 (2H, m), 4.85-4.90 (1H, m), 5.15-5.17 (1H, m), 6.73 (1H, br), 6.91 (1H, d, J=8.3 Hz), 7.63 (1H, d, J=8.8 Hz). white crystal m.p 207.0°C
864	¹ H-NMR δ (CDCl ₃ , ppm): 0.80 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 1.04 (3H, d, J=6.8 Hz), 1.13 (3H, d, J=6.8 Hz), 1.83-1.93 (1H, m), 1.95-2.01 (1H, m), 2.03-2.10 (1H, m), 2.71 (3H, s), 2.87 (3H, s), 3.45-3.50 (1H, m), 3.52-3.61 (1H, m), 3.81-3.83 (1H, m), 3.85-4.01 (1H, m), 4.08-4.10 (1H, m), 5.26 (1H, br), 6.68 (1H, br), 6.92 (1H, d, J=8.3), 7.63 (1H, br). white crystal m.p 183.8°C
865	¹ H-NMR δ (CDCl ₃ , ppm): 0.80 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 1.05 (6H, d, J=6.8 Hz), 1.40 (9H, s), 1.95-2.00 (1H, m), 2.03-2.11 (1H, m), 2.71 (3H, s), 2.87 (3H, s), 3.45-3.51 (1H, m), 3.52-3.61 (1H, m), 3.89-3.96 (1H, m), 4.05-4.08 (1H, m), 5.06 (1H, br), 6.68 (1H, br), 6.92 (1H, d, J=8.3 Hz), 7.55 (1H, br). white crystal m.p 148.5°C
866	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.04 (3H, d, J=6.8 Hz), 1.19-1.28 (3H, m), 1.90-1.95 (1H, m), 2.14-2.19 (1H, m), 3.48-4.13 (6H, m), 5.10 (1H, br), 6.24 (1H, d, J=7.7 Hz), 7.57-7.63 (2H, m), 7.77-7.82 (1H, m), 7.92 (1H, d, J=7.3 Hz), 8.14 (1H, d, J=8.8 Hz), 8.65 (1H, d, J=2.0 Hz), 9.34 (1H, d, J=2.4 Hz). white crystal m.p. 223.0°C

867	¹ H-NMR δ (CDCl ₃ , ppm): 0.88-1.22 (18H, m), 1.82-1.92 (1H, m), 2.16-2.21 (1H, m), 3.44-4.03 (4H, m), 4.82-4.87 (1H, m), 5.01 (1H, d), 6.21 (1H, d, J=7.3 Hz), 7.56-7.63 (2H, m), 7.76-7.93 (2H, m), 8.14 (1H, t, J=7.8 Hz), 8.65 (1H, s), 9.34 (1H, s). white crystal m.p. 224.0°C
868	¹ H-NMR δ (CDCl ₃ , ppm): 0.87-0.93 (12H, m), 1.01 (3H, d, J=6.8 Hz), 1.04 (3H, d, J=6.8 Hz), 1.82-1.95 (2H, m), 2.16-2.22 (1H, m), 3.47-4.05 (6H, m), 5.11 (1H, br), 6.22 (1H, d), 7.56-7.63 (2H, m), 7.77-7.82 (1H, m), 7.92 (1H, d, J=7.3 Hz), 8.15 (1H, d, J=8.3 Hz), 8.65 (1H, d, J=2.0 Hz), 9.34 (1H, d, J=2.4 Hz). white crystal m.p. 204.2°C
870	¹ H-NMR δ (CDCl ₃ , ppm): 0.67 (3H, d, J=6.8 Hz), 0.80 (3H, d, J=6.8 Hz), 1.01 (6H, t, J=6.8 Hz), 1.90-2.06 (2H, m), 3.49-3.55 (1H, m), 3.66 (3H, s), 3.75-3.84 (1H, m), 3.92-3.96 (1H, m), 4.07-4.12 (1H, m), 5.20 (1H, d), 6.25 (1H, d), 7.60-7.65 (1H, m), 7.74-7.79 (1H, m), 7.88 (1H, d, J=7.3 Hz), 8.09 (1H, d, J=8.3 Hz). white crystal m.p. 214.7°C

Properties of Compound (62) in Table 2

Compo und No.	Properties
871	¹ H-NMR δ (CDCl ₃ , ppm): 0.68 (3H, d, J=6.8 Hz), 0.80 (3H, d, J=6.8 Hz), 1.01 (6H, t, J=6.8 Hz), 1.21-1.28 (3H, m), 1.89-2.05 (2H, m), 3.50-3.56 (1H, m), 3.74-3.83 (1H, m), 3.89-3.94 (1H, m), 4.05-4.13 (3H, m), 5.17 (1H, d, J=8.8 Hz), 6.25 (1H, d, J=8.3 Hz), 7.60-7.65 (1H, m), 7.74-7.79 (1H, m), 7.86-7.89 (1H, m), 8.08 (1H, d, J=8.3 Hz), 8.26 (1H, d, J=8.8 Hz), 8.31 (1H, d, J=8.3 Hz), 8.49 (1H, d, J=5.9 Hz). white crystal m.p. 180.1°C
872	¹ H-NMR δ (CDCl ₃ , ppm): 0.69 (3H, d, J=6.8 Hz), 0.79 (3H, d, J=6.8 Hz), 1.02 (6H, t, J=6.8 Hz), 1.21 (6H, d, J=6.3 Hz), 1.89-2.05 (2H, m), 3.52-3.57 (1H, m), 3.72-3.81 (1H, m), 3.87-3.91 (1H, m), 4.05-4.13 (1H, m), 4.85-4.91 (1H, m), 5.09 (1H, d, J=9.3 Hz), 6.21 (1H, d, J=8.3 Hz), 7.60-7.65 (1H, m), 7.74-7.79 (1H, m), 7.88 (1H, d, J=6.8 Hz), 8.09 (1H, d, J=8.8 Hz), 8.26 (1H, d, J=8.8 Hz), 8.31 (1H, d, J=8.8 Hz), 8.49 (1H, br). white crystal m.p. 210.7°C
873	¹ H-NMR δ (CDCl ₃ , ppm): 0.69 (3H, d, J=6.8 Hz), 0.79 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 1.01 (6H, d, J=6.8 Hz), 1.85-2.05 (2H, m), 3.51-3.57 (1H, m), 3.73-3.92 (4H, m), 4.05-4.10 (1H, m), 5.18 (1H, d, J=8.3 Hz), 6.21 (1H, d, J=9.8 Hz), 7.60-7.65 (1H, m), 7.74-7.79 (1H, m), 7.88 (1H, d, J=7.8 Hz), 8.09 (1H, d, J=8.8 Hz), 8.26 (1H, d, J=8.8 Hz), 8.31 (1H, d, J=8.3 Hz), 8.49 (1H, br). white crystal m.p. 195.7°C
874	¹ H-NMR δ (CDCl ₃ , ppm): 0.71 (3H, d, J=6.8 Hz), 0.78 (3H, d, J=6.8 Hz), 1.02 (6H, t, J=6.8 Hz), 1.42 (9H, s), 1.87-2.02 (2H, m), 3.53-3.87 (3H, m), 4.06-4.13 (1H, m), 5.01 (1H, d, J=9.3 Hz), 6.20 (1H, d, J=8.8 Hz), 7.60-7.64 (1H, m), 7.74-7.79 (1H, m), 7.87 (1H, d, J=7.8 Hz), 8.08 (1H, d, J=7.8 Hz), 8.25-8.32 (2H, m), 8.49 (1H, br). white crystal m.p. 161.9°C

876	¹H-NMR δ (CDCl₃, ppm): 0.72-0.83 (6H, m), 0.99-1.28 (12H, m), 1.88-2.08 (2H, m), 3.54-3.58 (2H, m), 3.89-3.97 (1H, m), 4.06-4.15 (4H, m), 4.83-4.92 (1H, m), 5.09-5.17 (1H, d), 6.24 (1H x 1/3, d), 6.64 (1H x 2/3, br), 7.55-7.77 (3H, m), 7.98-8.07 (1H, m), 8.21-8.25 (1H, m), 8.41 (1H x 2/3, d, J=9.3 Hz), 8.52 (1H x 1/3, br). white crystal m.p. 202.5°C
879	¹H-NMR δ (CDCl₃, ppm): 0.63 (3H, d, J=6.8 Hz), 0.76 (3H, d, J=6.8 Hz), 0.99-1.28 (9H, m), 1.92-2.05 (2H, m), 3.50-3.55 (1H, m), 3.74-3.82 (1H, m), 3.92-4.13 (4H, m), 5.15 (1H, d), 6.26 (1H, d), 7.67-7.86 (4H, m), 8.44 (1H, d, J=5.4 Hz), 8.55 (1H, br), 9.61 (1H, d, J=8.3 Hz). white crystal m.p. 177.6°C
880	¹H-NMR δ (CDCl₃, ppm): 0.65 (3H, d, J=6.8 Hz), 0.76 (3H, d, J=6.8 Hz), 1.00-1.21 (12H, m), 1.90-2.05 (2H, m), 3.50-3.56 (1H, m), 3.70-3.78 (1H, m), 3.88-3.92 (1H, m), 4.05-4.11 (1H, m), 4.81-4.88 (1H, m), 5.10 (1H, d, J=8.8 Hz), 6.21 (1H, d, J=9.3 Hz), 7.67-7.87 (4H, m), 8.43-8.48 (1H, m), 8.54 (1H, br), 9.61 (1H, d, J=8.3 Hz). white crystal m.p. 201.1°C

Properties of Compound (63) in Table 2

Compo und No.	Properties
881	¹ H-NMR δ (CDCl ₃ , ppm): 0.64-1.09 (18H, m), 1.80-2.05 (3H, m), 3.49-3.56 (1H, m), 3.71-3.84 (3H, m), 3.90 (1H, dd, J=6.3, 8.8 Hz), 4.04-4.12 (1H, m), 5.19 (1H, d, J=8.3 Hz), 6.22 (1H, d, J=7.3 Hz), 7.67-7.87 (4H, m), 8.44 (1H, d, J=5.4 Hz), 8.55 (1H, br), 9.61 (1H, d, J=8.3 Hz). white crystal m.p. 188.1°C
884	¹ H-NMR δ (CDCl ₃ , ppm): 0.70 (3H, d, J=6.8 Hz), 0.80 (3H, d, J=6.8 Hz), 1.01 (6H, t, J=7.3 Hz), 1.21 (6H, d, J=6.3 Hz), 1.89-2.04 (2H, m), 3.50-3.56 (1H, m), 3.73-3.81 (1H, m), 3.89-3.92 (1H, m), 4.03-4.10 (1H, m), 4.85-4.91 (1H, m), 5.12 (1H, d, J=7.8 Hz), 6.28 (1H, d, J=7.3 Hz), 7.69-7.80 (2H, m), 7.95-8.05 (2H, m), 8.48 (1H, br), 8.58 (1H, s), 9.14 (1H, s). white crystal m.p. 202.1°C
887	¹ H-NMR δ (CDCl ₃ , ppm): 0.72-0.83 (6H, m), 1.00-1.14 (6H, m), 1.91-2.09 (2H, m), 3.52-3.94 (6H, m), 4.08-4.14 (1H, m), 5.14-5.18 (1H, m), 6.22 (1H, d, J=8.3 Hz), 7.84-7.90 (2H, m), 8.09-8.27 (3H, m), 9.64 (1H, s). white crystal m.p. 185.3°C
888	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 1.00-1.10 (6H, m), 1.20-1.28 (3H, m), 1.89-2.10 (2H, m), 3.54-3.92 (3H, m), 4.07-4.15 (3H, m), 5.08-5.13 (1H, m), 6.19 (1H, d, J=8.8 Hz), 7.84-7.90 (2H, m), 8.09-8.28 (3H, m), 9.64 (1H, s). white crystal m.p. 186.3°C
889	¹ H-NMR δ (CDCl ₃ , ppm): 0.72-0.88 (6H, m), 1.00-1.28 (12H, m), 1.89-2.08 (2H, m), 3.50-3.78 (2H, m), 3.86-3.90 (1H, m), 4.09-4.14 (1H, m), 4.82-4.93 (1H, m), 5.05 (1H, br), 6.18 (1/2H, d, J=8.8 Hz), 6.54 (1/2H, br), 7.82-7.91 (2H, m), 8.06-8.28 (3H, m), 9.64 (1H, d, J=6.4 Hz). white crystal m.p. 190.9°C

893	¹ H-NMR δ (CDCl ₃ , ppm): 0.86 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.06 (3H, d, J=6.8 Hz), 1.12 (3H, d, J=6.8 Hz), 1.16 (3H, d, J=6.8 Hz), 1.86-2.13 (2H, m), 3.45-3.60 (2H, m), 3.86-4.01 (2H, m), 4.68-4.75 (1H, m), 4.90 (1/2H, br), 5.02 (1/2H, br), 6.10 (1/2H, br), 6.54 (1/2H, br), 7.04 (1/2H, br), 7.52 (1/2H, br), 7.81-7.91 (2H, m), 8.36-8.44 (1H, m), 8.55-8.59 (1H, m), 9.39-9.40 (1H, m). pale yellow solid
897	¹ H-NMR δ (CDCl ₃): 0.87-0.97 (12H, m), 1.05-1.22 (1H, m), 1.24-1.26 (6H, m), 1.56-1.90 (3H, m), 3.25-3.51 (1H, m), 3.81-3.87 (1H, m), 4.43-4.51 (1H, m), 4.65-4.68 (1H, m), 4.90-5.05 (2H, m), 6.07 (1H, br), 6.87-7.00 (4H, m). white semisolid
900	¹ H-NMR δ (CDCl ₃): 0.91-1.01 (12H, m), 1.24 (3H, t, J=7.3 Hz), 1.84-1.90 (1H, m), 2.14-2.20 (1H, m), 3.37-3.41 (1H, m), 3.54-3.59 (1H, m), 3.87-3.94 (2H, m), 4.12 (2H, q, J=7.3 Hz), 4.99 (2H, m), 5.05 (1H, br), 6.11 (1H, d, J=7.8 Hz), 6.82-6.93 (3H, m), 7.05-7.22 (3H, m). white crystal m.p. 205.8°C

Properties of Compound (64) in Table 2

Compo und No.	Properties
901	¹ H-NMR δ (CDCl ₃): 0.92-1.01 (12H, m), 1.23 (6H, t, J=6.3 Hz), 1.84-1.89 (1H, m), 2.15-2.20 (1H, m), 3.31-3.38 (1H, m), 3.56-3.62 (1H, m), 3.86-3.93 (2H, m), 4.86-4.92 (1H, m), 4.99 (2H, s), 6.10 (1H, d, J=7.3 Hz), 6.82-6.92 (3H, m), 7.06 (1H, s), 7.10 (1H, d, J=7.3 Hz), 7.17-7.23 (1H, m). white crystal m.p. 226.4°C
904	¹ H-NMR δ (CDCl ₃): 0.81-0.93 (6H, m), 1.00-1.04 (6H, m), 1.19-1.28 (3H, m), 1.88-2.02 (1H, m), 2.14-2.19 (1H, m), 3.30-3.49 (1H, m), 3.69-3.74 (1H, m), 3.84-3.92 (1H, m), 4.00-4.16 (3H, m), 5.05 (1H, d, J=7.3 Hz), 6.17 (1H, d, J=8.8 Hz), 7.12 (1H, s), 7.43-7.50 (1H, m), 7.61-7.66 (1H, m), 7.83-7.86 (1H, m), 7.97 (1H, br). white crystal m.p. 195.0°C
905	¹ H-NMR δ (CDCl ₃ , ppm): 0.81-0.93 (6H, m), 1.00-1.04 (6H, m), 1.19-1.28 (6H, m), 1.87-2.03 (1H, m), 2.15-2.20 (1H, m), 3.33-3.43 (1H, m), 3.69-3.74 (1H, m), 3.84-3.91 (1H, m), 4.00-4.04 (1H, m), 4.87-4.90 (1H, m), 5.00 (1H, d, J=6.8 Hz), 6.18 (1H, d, J=8.8 Hz), 7.12 (1H, s), 7.42-7.48 (1H, m), 7.62-7.66 (1H, m), 7.83-7.86 (1H, m), 8.02 (1H, br). white crystal m.p. 220.8°C
906	¹ H-NMR δ (CDCl ₃ , ppm): 0.81-0.93 (12H, m), 0.99-1.04 (6H, m), 1.87-1.98 (2H, m), 2.13-2.21 (1H, m), 3.31-3.46 (1H, m), 3.69-3.91 (4H, m), 3.98-4.05 (1H, m), 5.07 (1H, d, J=6.4 Hz), 6.18 (1H, d, J=8.8 Hz), 7.12 (1H, s), 7.43-7.50 (1H, m), 7.61-7.66 (1H, m), 7.83-7.86 (1H, m), 8.06 (1H, br). white crystal m.p. 198.3°C

908	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 1.00 (6H, t, J=6.3 Hz), 1.20 (3H, t, J=6.8 Hz), 1.88-1.96 (1H, m), 2.03-2.12 (1H, m), 3.52-3.66 (2H, m), 3.94-4.06 (4H, m), 5.47 (1H, d, J=7.3 Hz), 6.78 (1H, br), 6.85 (1H, d, J=8.3 Hz), 7.19-7.24 (2H, m), 7.38-7.44 (1H, m), 7.77 (1H, d, J=2.9 Hz), 8.09-8.12 (1H, m), 9.97 (1H, br). white crystal m.p. 240.2°C
909	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 1.00 (6H, t, J=6.8 Hz), 1.17 (6H, d, J=6.4 Hz), 1.89-1.96 (1H, m), 2.04-2.09 (1H, m), 3.58 (2H, br), 3.92-3.97 (2H, m), 4.81-4.87 (1H, m), 5.39 (1H, d, J=7.3 Hz), 6.80-6.85 (2H, m, J=8.3 Hz), 7.18-7.23 (2H, m), 7.40-7.43 (1H, m), 7.77 (1H, d, J=2.9 Hz), 8.10-8.13 (1H, m), 10.03 (1H, br). white crystal m.p. 247.1°C
910	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.85-0.90 (9H, m), 1.00 (6H, t, J=6.8 Hz), 1.85-1.96 (2H, m), 2.04-2.09 (1H, m), 3.52-3.65 (2H, m), 3.76-3.81 (2H, br), 3.92-4.00 (2H, m), 5.48 (1H, d), 6.80 (1H, br), 6.89 (1H, d, J=8.3 Hz), 7.17-7.23 (2H, m), 7.40-7.44 (1H, m), 7.77 (1H, d, J=2.9 Hz), 8.09-8.12 (1H, m), 10.05 (1H, br). white crystal m.p. 232.6°C

Properties of Compound (65) in Table 2

Compo und No.	Properties
912	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.90-1.94 (1H, m), 2.05-2.08 (1H, m), 3.48-3.51 (1H, m), 3.59-3.62 (1H, m), 3.67 (3H, s), 3.89-4.01 (2H, m), 4.05 (3H, s), 5.05 (1H, br), 6.15 (1H, br), 6.85-6.87 (1H, m), 7.04-7.09 (2H, m), 7.27-7.31 (3H, m). white crystal m.p 224.7°C
913	¹ H-NMR δ (CDCl ₃ , ppm): 0.85 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.12-1.25 (3H, m), 1.90-1.98 (1H, m), 2.15-2.17 (1H, m), 3.41-3.49 (1H, m), 3.62-3.70 (1H, m), 3.89-3.98 (1H, m), 4.05 (3H, s), 4.12-4.13 (1H, m), 5.05 (1H, br), 6.15 (1H, br), 6.87 (1H, br), 7.03-7.09 (1H, m), 7.13 (1H, br), 7.26-7.31 (3H, m). white crystal m.p 222.4°C
914	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.19-1.24 (6H, m), 1.90-1.98 (1H, m), 2.05-2.17 (1H, m), 3.45-3.48 (1H, m), 3.60-3.65 (1H, m), 3.89-4.01 (2H, m), 4.04 (3H, s), 4.86-4.88 (1H, m), 5.01 (1H, br), 6.12 (1H, br), 6.88 (1H, br), 7.06-7.07 (1H, m), 7.13 (1H, br), 7.26-7.30 (3H, m). white crystal m.p 240.1°C
915	¹ H-NMR δ (CDCl ₃ , ppm): 0.89 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (6H, d, J=6.8 Hz), 1.81-1.97 (1H, m), 2.05-2.09 (1H, m), 3.41-3.51 (1H, m), 3.55-3.60 (1H, m), 3.80-4.02 (4H, m), 4.05 (3H, s), 5.09 (1H, br), 6.15 (1H, br), 6.87 (1H, s), 7.06-7.13 (2H, m), 7.27-7.30 (2H, m). white crystal m.p 210.0°C

916	¹H-NMR δ (CDCl₃, ppm): 0.89 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.43 (9H, s), 1.90-1.98 (1H, m), 2.05-2.17 (1H, m), 3.31-3.37 (1H, m), 3.72-3.74 (1H, m), 3.83 (1H, q, J=6.8 Hz), 3.98-4.00 (1H, m), 4.05 (3H, s), 4.97 (1H, br), 6.12 (1H, br), 6.92 (1H, br), 7.03-7.08 (2H, m), 7.24-7.30 (2H, m). white crystal m.p 213.1°C
917	¹H-NMR δ (CDCl₃, ppm): 0.82-1.06 (12H, m), 1.23-1.28 (3H, m), 1.85-1.91 (1H, m), 2.07-2.26 (1H, m), 3.47-3.54 (1H, m), 3.64-3.72 (1H, m), 3.90-4.02 (2H, m), 4.09-4.17 (2H, m), 5.18-5.26 (1H, m), 6.35 (1H, d, J=8.3 Hz), 7.37-7.42 (2H, m), 7.66-7.71 (2H, m), 8.89 (1H, s), 8.99 (1H, br). white crystal m.p. 211.9°C
918	¹H-NMR δ (CDCl₃, ppm): 0.83 (3H, d, J=6.3 Hz), 0.90 (3H, d, J=6.3 Hz), 0.98 (6H, t, J=7.3 Hz), 1.23 (6H, d, J=6.3 Hz), 1.85-1.90 (1H, m), 2.04-2.12 (1H, m), 3.49-3.55 (1H, m), 3.63-3.70 (1H, m), 3.88-3.93 (1H, m), 3.99-4.04 (1H, m), 4.86-4.93 (1H, m), 5.10 (1H, d, J=9.3 Hz), 6.29 (1H, d, J=9.3 Hz), 7.37-7.42 (2H, m), 7.65-7.71 (2H, m), 8.89 (1H, s), 8.98 (1H, br). white crystal m.p. 249.2°C

Properties of Compound (66) in Table 2

Compo und No.	Properties
919	¹ H-NMR δ (CDCl ₃ , ppm): 0.83-1.02 (18H, m), 1.86-1.94 (2H, m), 2.08-2.15 (1H, m), 3.49-3.58 (1H, m), 3.63-3.72 (1H, m), 3.84-4.03 (4H, m), 5.21 (1H, d, J=9.3 Hz), 6.33 (1H, br), 7.37-7.42 (2H, m), 7.66-7.71 (2H, m), 8.89 (1H, s), 8.99 (1H, br). white crystal m.p. 225.5°C
922	¹ H-NMR δ (CDCl ₃ , ppm): 0.89 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 1.01 (6H, t, J=6.8 Hz), 1.22 (6H, t, J=7.3 Hz), 1.87-1.93 (1H, m), 2.13-2.18 (1H, m), 3.43-3.49 (1H, m), 3.68-3.74 (1H, m), 3.88-3.94 (1H, m), 4.00-4.07 (1H, m), 4.86-4.92 (1H, m), 5.01 (1H, d, J=7.8 Hz), 6.17 (1H, d, J=7.8 Hz), 7.13 (1H, s), 7.42-7.48 (1H, m), 7.60 (1H, d, J=8.3 Hz), 7.71-7.76 (1H, m), 7.95 (1H, br), 8.21 (1H, d, J=7.8 Hz). white crystal m.p. 203.6°C
927	¹ H-NMR δ (CDCl ₃ , ppm): 0.84-1.28 (18H, m), 1.89-2.22 (2H, m), 3.28-3.42 (1H, m), 3.68-4.14 (3H, m), 4.83-4.92 (1H, m), 4.95-5.03 (1H, m), 6.17 (1H x 1/3, br), 6.47 (1H x 2/3, br), 7.23 (1H x 2/3, br), 7.74 (1H x 1/3, br), 7.85-7.93 (2H, m), 8.30 (1H x 2/3, s), 8.37 (1H x 1/3, s). white crystal m.p. 242.9°C
931	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.8 Hz), 0.89 (3H, d, J=7.3 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=7.3 Hz), 1.20 (3H, d, J=6.3 Hz), 1.21 (3H, d, J=6.8 Hz), 1.87-1.92 (1H, m), 2.14-2.16 (1H, m), 3.66-3.74 (2H, m), 3.84-3.97 (2H, m), 4.84 (1H, q, J=6.3 Hz), 5.06 (1H, d, J=7.3 Hz), 6.29 (1H, d, J=6.8 Hz), 7.65 (1H, m), 7.71-7.75 (2H, m), 8.73 (2H, m). white solid
932	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (6H, d, J=6.8 Hz), 0.88 (6H, d, J=6.8 Hz), 0.99 (3H, d, J=6.3 Hz), 1.00 (3H, d, J=6.3 Hz), 1.87-1.92 (2H, m), 2.04-2.15 (1H, m), 3.55 (2H, m), 3.81 (1H, m), 3.84 (3H, s), 3.88 (1H, m), 3.90-3.91 (2H, m), 5.15 (1H, m), 6.15 (1H, m), 6.89-6.90 (2H, m), 6.92 (1H, m), 7.75-7.77 (2H, m). white solid

933	¹ H-NMR δ (CDCl ₃ , ppm): 0.91 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.95 (6H, d, J=6.3 Hz), 1.23 (3H, d, J=6.8 Hz), 1.25 (3H, d, J=6.3 Hz), 1.35-1.44 (1H, m), 1.67-1.75 (1H, m), 1.89-1.95 (1H, m), 2.25 (1H, m), 2.39 (3H, s), 2.82-2.88 (1H, m), 3.82-3.84 (1H, m), 3.85-3.95 (1H, m), 3.97-4.05 (1H, m), 4.91-4.92 (1H, m), 5.04 (1H, m), 6.00-6.03 (1H, m), 7.23-7.26 (2H, m), 7.52 (1H, m), 7.79-7.80 (2H, m). white solid
935	¹ H-NMR δ (CDCl ₃ , ppm): 0.92 (6H, d, J=6.8 Hz), 1.00 (6H, d, J=6.8 Hz), 1.02 (6H, d, J=6.8 Hz), 1.89-1.92 (1H, m), 2.15-2.17 (1H, m), 3.45 (1H, m), 3.75 (1H, m), 3.86-3.89 (1H, m), 3.95-3.97 (1H, m), 6.20 (1H, m), 7.35-7.37 (1H, m), 7.38 (1H, m), 8.13 (1H, d, J=8.3 Hz), 8.70-8.72 (1H, m), 9.06-9.07 (1H, m). white solid

Properties of Compound (67) in Table 2

Compo und No.	Properties
936	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (6H, d, J=6.8 Hz), 0.91 (6H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.88-1.93 (1H, m), 2.15-2.17 (1H, m), 3.43 (1H, m), 3.69 (1H, m), 3.83 (2H, d, J=6.3 Hz), 3.87-3.90 (1H, t, J=6.8 Hz), 3.96-3.98 (1H, m), 5.08 (1H, m), 6.18 (1H, m), 7.35-7.38 (1H, m), 7.42 (1H, m), 8.13 (1H, d, J=7.8 Hz), 8.70-8.72 (1H, m), 9.06-9.07 (1H, m). white solid
937	¹ H-NMR δ (CDCl ₃ , ppm): 0.90 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.41 (9H, s), 1.84-1.91 (1H, m), 2.14-2.19 (1H, m), 3.28 (1H, m), 3.83 (2H, t, J=6.3 Hz), 3.94-4.01 (1H, m), 4.92 (1H, m), 6.18 (1H, m), 7.34-7.37 (1H, m), 7.52 (1H, m), 8.15 (1H, d, J=7.8 Hz), 8.69-8.71 (1H, m), 9.08-9.09 (1H, m). white solid
938	¹ H-NMR δ (CDCl ₃ , ppm): 0.71 (3H, d, J=6.8 Hz), 0.81 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=7.3 Hz), 0.99 (3H, d, J=7.3 Hz), 1.23 (3H, t, J=7.3 Hz), 1.87-1.89 (1H, m), 2.00-2.01 (1H, m), 3.45-3.49 (1H, m), 3.69 (1H, m), 3.90 (1H, m), 4.01-4.03 (1H, m), 4.10 (2H, q, J=7.3 Hz), 5.16 (1H, d, J=7.3 Hz), 6.22 (1H, d, J=8.8 Hz), 7.39-7.43 (1H, m), 7.81-7.86 (1H, m), 8.14-8.16 (1H, m), 8.27 (1H, m), 8.52-8.53 (1H, m). white crystal m.p. 168.2°C
939	¹ H-NMR δ (CDCl ₃ , ppm): 0.72 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.21 (6H, d, J=6.3 Hz), 1.87-1.89 (1H, m), 1.90-2.00 (1H, m), 3.45-3.50 (1H, m), 3.68-3.70 (1H, m), 3.88 (1H, dd, J=6.3, 8.7 Hz), 4.01-4.03 (1H, m), 4.89 (1H, q, J=6.3 Hz), 5.08 (1H, m), 6.18 (1H, m), 7.40-7.43 (1H, m), 7.81-7.86 (1H, m), 8.14-8.16 (1H, m), 8.28 (1H, m), 8.52-8.53 (1H, m). white solid

940	¹H-NMR δ (CDCl₃, ppm): 0.72 (3H, d, J=6.8 Hz), 0.81 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 0.97 (3H, d, J=7.3 Hz), 1.00 (3H, d, J=7.3 Hz), 1.87-1.90 (2H, m), 2.04 (1H, m), 3.48 (1H, m), 3.50 (1H, m), 3.83 (2H, d, J=6.3 Hz), 3.87-3.91 (1H, m), 4.01 (1H, m), 5.19 (1H, m), 6.20 (1H, m), 7.40-7.43 (1H, m), 7.82-7.86 (1H, m), 8.14-8.16 (1H, m), 8.27 (1H, m), 8.52-8.53 (1H, m). white solid
941	¹H-NMR δ (CDCl₃, ppm): 0.73 (3H, d, J=6.3 Hz), 0.80 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=7.3 Hz), 1.42 (9H, s), 1.97 (1H, m), 1.99 (1H, m), 3.51-3.53 (1H, m), 3.60 (1H, m), 3.80 (1H, dd, J=6.8, 8.7 Hz), 4.01 (1H, m), 5.00 (1H, m), 6.20 (1H, m), 7.39-7.43 (1H, m), 7.81-7.85 (1H, m), 8.16 (1H, m), 8.25 (1H, m), 8.52 (1H, m). white solid
943	¹H-NMR δ (CDCl₃, ppm): 0.86 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.17 (6H, d, J=5.9 Hz), 1.84-1.86 (1H, m), 2.14-2.15 (1H, m), 3.41-3.47 (1H, m), 3.58-3.69 (1H, m), 3.86 (1H, m), 3.90-3.97 (1H, m), 4.76 (1H, m), 4.96 (1H, d, J=7.3 Hz), 6.25 (1H, d, J=7.3 Hz), 7.09 (1H, m), 7.29 (1H, dd, J=4.9, 7.8 Hz), 7.98 (1H, dd, J=1.9, 7.3 Hz), 8.41-8.42 (1H, m). white crystal m.p. 227.7°C

Properties of Compound (68) in Table 2

Compo und No.	Properties
944	¹ H-NMR δ (CDCl ₃ , ppm): 0.89 (6H, d, J=6.8 Hz), 0.93 (6H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.85-1.92 (2H, m), 2.16-2.18 (1H, m), 3.50-3.51 (1H, m), 3.66 (1H, m), 3.77 (2H, d, J=6.3 Hz), 3.87-3.91 (1H, m), 3.95-3.99 (1H, m), 5.08 (1H, d, J=7.3 Hz), 6.29 (1H, d, J=7.3 Hz), 7.09 (1H, m), 7.30-7.33 (1H, m), 8.01 (1H, dd, J=1.9, 7.8 Hz), 8.43-8.45 (1H, m). white crystal m.p. 207.0°C
945	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.36 (9H, s), 1.85-1.87 (1H, m), 2.13-2.15 (1H, m), 3.30 (1H, m), 3.78 (2H, m), 3.94 (1H, m), 4.84 (1H, m), 6.17 (1H, m), 7.12 (1H, m), 7.27-7.30 (1H, m), 7.97-7.99 (1H, m), 8.40-8.41 (1H, m). white crystal m.p. 192.5°C
946	¹ H-NMR δ (CDCl ₃ , ppm): 0.85 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.3 Hz), 0.99 (3H, d, J=6.3 Hz), 1.23 (3H, t, J=6.8 Hz), 1.83-1.90 (1H, m), 2.01-2.09 (1H, m), 2.71 (1H, m), 3.49-3.54 (1H, m), 3.93 (1H, q, J=6.3 Hz), 4.05-4.08 (2H, m), 5.90 (1H, d, J=8.3 Hz), 7.18 (1H, d, J=8.8 Hz), 7.39 (1H, d, J=8.3 Hz), 8.04 (1H, m), 8.15 (1H, dd, J=2.4, 8.8 Hz), 8.87 (1H, d, J=1.9 Hz). white crystal m.p. 238.6°C
947	¹ H-NMR δ (CDCl ₃ , ppm): 0.89 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.20 (3H, d, J=5.8 Hz), 1.23 (3H, d, J=6.3 Hz), 1.86-1.91 (1H, m), 2.14-2.19 (1H, m), 3.31 (1H, m), 3.75-3.79 (1H, m), 3.85-3.89 (1H, m), 3.92-3.99 (1H, m), 4.82-4.88 (1H, m), 5.01 (1H, d, J=6.8 Hz), 6.20 (1H, d, J=8.3 Hz), 7.39 (1H, d, J=8.3 Hz), 7.61 (1H, m), 8.11 (1H, dd, J=2.4, 8.3 Hz), 8.85 (1H, d, J=2.4 Hz). white crystal m.p. 250.5°C

948	¹ H-NMR δ (CDCl ₃ , ppm): 0.90 (6H, d, J=6.3 Hz), 0.93 (6H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.86-1.93 (2H, m), 2.14-2.19 (1H, m), 3.34 (1H, m), 3.73-3.76 (1H, m), 3.83 (2H, d, J=6.3 Hz), 3.86-3.89 (1H, m), 3.91-3.99 (1H, m), 5.06 (1H, d, J=5.8 Hz), 6.17 (1H, d, J=6.8 Hz), 7.38 (1H, d, J=8.3 Hz), 7.56 (1H, m), 8.11 (1H, dd, J=2.4, 8.3 Hz), 8.85 (1H, d, J=2.4 Hz). white crystal m.p. 227.9°C
949	¹ H-NMR δ (CDCl ₃ , ppm): 0.91 (3H, d, J=6.8 Hz), 0.94 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.41 (9H, s), 1.83-1.89 (1H, m), 2.13-2.21 (1H, m), 3.17 (1H, m), 3.80-3.83 (2H, m), 3.93-4.00 (1H, m), 4.92 (1H, m), 6.14 (1H, d, J=7.3 Hz), 7.37 (1H, d, J=8.3 Hz), 7.64 (1H, m), 8.13 (1H, dd, J=1.9, 8.3 Hz), 8.87 (1H, d, J=2.4 Hz). white crystal m.p. 213.5°C
950	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.23 (3H, t, J=6.8 Hz), 1.86-1.88 (1H, m), 2.00-2.05 (1H, m), 3.46-3.52 (1H, m), 3.62-3.68 (1H, m), 3.88-3.91 (1H, m), 4.00-4.06 (1H, m), 4.11 (2H, q, J=6.8 Hz), 5.18 (1H, d, J=8.8 Hz), 6.20 (1H, d, J=8.3 Hz), 7.45 (1H, d, J=7.8 Hz), 7.81 (1H, t, J=7.8 Hz), 8.04 (1H, m), 8.08 (1H, d, J=7.3 Hz). white crystal m.p. 170.1°C

Properties of Compound (69) in Table 2

Compo und No.	Properties
951	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.18 (3H, d, J=6.8 Hz), 1.21 (3H, d, J=6.3 Hz), 1.86-1.89 (1H, m), 2.00-2.06 (1H, m), 3.48-3.53 (1H, m), 3.61-3.68 (1H, m), 3.85-3.89 (1H, dd, J=6.3, 8.8 Hz), 4.01-4.06 (1H, m), 4.87-4.90 (1H, m), 5.09 (1H, d, J=7.8 Hz), 6.15 (1H, d, J=8.3 Hz), 7.42-7.49 (1H, m), 7.79-7.83 (1H, m), 8.04 (1H, m), 8.06-8.08 (1H, m). white crystal m.p. 204.9°C
952	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.3 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.86-1.91 (2H, m), 2.01-2.04 (1H, m), 3.48-3.51 (1H, m), 3.61-3.69 (1H, m), 3.84 (2H, d, J=6.3 Hz), 3.89 (1H, dd, J=6.3, 8.8 Hz), 4.03 (1H, dd, J=5.4, 9.3 Hz), 5.19 (1H, d, J=7.8 Hz), 6.16 (1H, d, J=8.8 Hz), 7.45 (1H, d, J=7.8 Hz), 7.81 (1H, t, J=7.3 Hz), 8.04 (1H, m), 8.08 (1H, d, J=7.8 Hz). white crystal m.p. 193.2°C
953	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.3 Hz), 1.43 (9H, s), 1.86-1.87 (1H, m), 2.00-2.02 (1H, m), 3.50-3.55 (1H, m), 3.60-3.61 (1H, m), 3.79 (1H, dd, J=6.8, 9.2 Hz), 4.01-4.04 (1H, m), 5.01 (1H, d, J=8.3 Hz), 6.13 (1H, d, J=9.3 Hz), 7.43-7.48 (1H, m), 7.78-7.84 (1H, m), 8.03 (1H, m), 8.07-8.11 (1H, m). white crystal m.p. 174.7°C
958	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.78 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.03 (3H, d, J=6.8 Hz), 1.18 (3H, d, J=6.8 Hz), 1.22 (3H, d, J=6.8 Hz), 1.96-2.04 (2H, m), 2.60 (3H, d, J=7.8 Hz), 3.47-3.50 (2H, m), 3.83-3.92 (1H, m), 4.00-4.05 (1H, m), 4.83-4.87 (1H, m), 5.17 (1H, br), 7.31-7.34 (1H, m), 7.83-7.85 (1H, m), 8.07-8.13 (1H, m). white crystal: m.p. 173.7°C

961	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=7.3 Hz), 0.81 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.3 Hz), 1.03 (3H, d, J=6.8 Hz), 1.25 (6H, d, J=7.3 Hz), 1.96-2.05 (2H, m), 3.37 (3H, s), 3.38-3.42 (1H, m), 3.51-3.57 (1H, m), 3.81-3.85 (1H, m), 4.02-4.04 (1H, m), 4.86 (1H, q, J=6.8 Hz), 5.14 (1H, br), 6.47 (1H, br), 8.12-8.18 (1H, m), 8.20-8.24 (1H, m), 8.40-8.43 (1H, m). APCI-MS: M ⁺ 471 white crystal
966	¹ H-NMR δ (CDCl ₃ , ppm): 0.90 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.18 (3H, d, J=6.8 Hz), 1.20 (3H, d, J=6.8 Hz), 1.84-1.89 (1H, m), 2.13-2.19 (1H, m), 3.26 (1H, m), 3.75 (1H, m), 3.82-3.86 (1H, m), 3.90-3.92 (1H, m), 4.81-4.87 (1H, m), 4.95 (1H, d, J=5.9 Hz), 6.15 (1H, m), 7.58-7.59 (1H, m), 7.66 (1H, m), 7.76 (1H, m), 8.46-8.47 (1H, m). white crystal m.p. 227.1°C

Properties of Compound (70) in Table 2

Compo und No.	Properties
967	¹ H-NMR δ (CDCl ₃ , ppm): 0.92 (3H, d, J=6.8 Hz), 0.94 (3H, d, J=6.8 Hz), 0.99 (6H, d, J=6.8 Hz), 1.01 (6H, d, J=6.8 Hz), 1.87-1.92 (1H, m), 2.15-2.20 (1H, m), 3.34 (1H, m), 3.73-3.76 (1H, m), 3.83 (2H, d, J=6.3 Hz), 3.86-3.96 (2H, m), 5.09 (1H, d, J=6.3 Hz), 6.24 (1H, m), 7.59-7.60 (1H, m), 7.67 (1H, m), 7.78 (1H, m), 8.48-8.49 (1H, m). white crystal m.p. 207.3°C
968	¹ H-NMR δ (CDCl ₃ , ppm): 0.95 (3H, d, J=7.3 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.83-1.91 (1H, m), 2.13-2.21 (1H, m), 3.17 (1H, m), 3.81-3.84 (2H, m), 3.93-3.99 (1H, m), 4.95 (1H, d, J=5.9 Hz), 6.22 (1H, m), 7.62-7.64 (1H, m), 7.73-7.75 (1H, m), 7.80 (1H, m), 8.47-8.48 (1H, m). white crystal m.p. 174.7°C
969	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.98 (6H, t, J=6.8 Hz), 1.85-1.90 (1H, m), 2.00-2.06 (1H, m), 3.43-3.49 (1H, m), 3.63-3.72 (4H, m), 3.87-3.93 (1H, m), 3.99-4.04 (1H, m), 5.19 (1H, d, J=8.3 Hz), 6.20 (1H, d, J=8.3 Hz), 7.81 (1H, dd, J=2.4, 8.3 Hz), 8.10-8.14 (2H, m), 8.47 (1H, d, J=2.4 Hz). white crystal m.p. 168.7°C
970	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.98 (6H, t, J=6.8 Hz), 1.24 (3H, t, J=7.3 Hz), 1.85-1.90 (1H, m), 2.00-2.06 (1H, m), 3.44-3.50 (1H, m), 3.63-3.71 (1H, m), 3.86-3.91 (1H, m), 3.99-4.14 (3H, m), 5.15 (1H, d, J=8.8 Hz), 6.18 (1H, d, J=8.3 Hz), 7.79-7.83 (1H, m), 8.10-8.14 (2H, m), 8.47 (1H, d, J=2.0 Hz). white crystal m.p. 165.2°C

971	¹ H-NMR δ (CDCl ₃ , ppm): 0.73-0.83 (6H, m), 0.93-1.04 (6H, m), 1.18-1.23 (6H, m), 1.84-2.05 (2H, m), 3.46-3.69 (2H, m), 3.84-3.93 (1H, m), 4.00-4.08 (1H, m), 4.81-4.91 (1H, m), 5.11 (1H, d, $J=8.3$ Hz), 6.15 (1H x 1/3, d, $J=7.8$ Hz), 6.54 (1H x 2/3, br), 7.79-7.84 (1H, m), 7.98 (1H, d, $J=8.8$ Hz), 8.10-8.14 (1H, m), 8.47-8.51 (1H, m). white crystal m.p. 167.7°C APCI-MS: M ⁺ : 427
979	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, $J=6.8$ Hz), 0.83 (3H, d, $J=6.8$ Hz), 0.97 (3H, d, $J=6.8$ Hz), 0.99 (3H, d, $J=6.8$ Hz), 1.24 (3H, t, $J=6.8$ Hz), 1.83-1.91 (1H, m), 2.00-2.05 (1H, m), 3.46-3.50 (1H, m), 3.64-3.72 (1H, m), 3.86-3.90 (1H, m), 3.98-4.04 (1H, m), 4.11 (2H, q, $J=6.8$ Hz), 5.14 (1H, d, $J=6.8$ Hz), 6.20 (1H, d, $J=9.3$ Hz), 7.41-7.43 (1H, m), 8.15-8.16 (1H, m), 8.22-8.23 (1H, m), 8.42-8.43 (1H, m). white crystal m.p. 171.3°C
980	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, $J=6.8$ Hz), 0.82 (3H, d, $J=6.8$ Hz), 0.97 (3H, d, $J=6.8$ Hz), 0.99 (3H, d, $J=6.3$ Hz), 1.22 (6H, d, $J=5.8$ Hz), 1.83-1.96 (1H, m), 2.01-2.09 (1H, m), 3.47-3.52 (1H, m), 3.62-3.70 (1H, m), 3.85-3.88 (1H, m), 3.98-4.04 (1H, m), 4.83-4.91 (1H, m), 5.07 (1H, d, $J=9.8$ Hz), 6.19 (1H, d, $J=7.8$ Hz), 7.41-7.43 (1H, m), 8.16-8.18 (1H, m), 8.23 (1H, m), 8.42-8.46 (1H, m). white crystal m.p. 204.3°C

Properties of Compound (71) in Table 2

Compo und No.	Properties
981	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 0.91 (6H, d, J=6.3 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.84-1.91 (2H, m), 2.03 (1H, m), 3.47-3.51 (1H, m), 3.65-3.67 (1H, m), 3.84 (2H, d, J=6.3 Hz), 3.86-3.90 (1H, m), 4.01-4.03 (1H, m), 5.18 (1H, m), 6.21 (1H, m), 7.27-7.44 (1H, m), 8.15-8.16 (1H, m), 8.22-8.23 (1H, m), 8.42-8.46 (1H, m). white crystal m.p. 179.6°C
982	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.80 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 1.00 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.86-1.87 (1H, m), 2.01-2.02 (1H, m), 3.48-3.54 (1H, m), 3.59-3.67 (1H, m), 3.77-3.81 (1H, m), 3.98-4.04 (1H, m), 4.97 (1H, m), 6.17 (1H, d, J=9.3 Hz), 7.41-7.46 (1H, m), 8.16-8.17 (1H, m), 8.22-8.23 (1H, m), 8.41-8.43 (1H, m). white crystal m.p. 171.7°C
983	¹ H-NMR δ (CDCl ₃ , ppm): 0.70 (3H, d, J=6.8 Hz), 0.81 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.3 Hz), 0.99 (3H, d, J=6.8 Hz), 1.23 (3H, t, J=7.3 Hz), 1.87-1.92 (1H, m), 1.96-2.05 (1H, m), 2.58 (3H, s), 3.42-3.45 (1H, m), 3.71-3.78 (1H, m), 3.91-3.94 (1H, m), 3.98-4.05 (1H, m), 4.10 (2H, q, J=7.3 Hz), 5.20 (1H, d, J=9.3 Hz), 6.37 (1H, m), 7.29-7.31 (1H, m), 7.76-7.78 (1H, m), 7.98-8.00 (1H, m), 8.44 (1H, m). white crystal m.p. 194.4°C
984	¹ H-NMR δ (CDCl ₃ , ppm): 0.72 (3H, d, J=6.8 Hz), 0.81 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.21 (3H, d, J=6.3 Hz), 1.22 (3H, d, J=6.3 Hz), 1.88-1.99 (1H, m), 2.01-2.08 (1H, m), 2.59 (3H, s), 3.43-3.47 (1H, m), 3.69-3.77 (1H, m), 3.88-3.92 (1H, m), 3.98-4.06 (1H, m), 4.80-4.92 (1H, m), 5.13 (1H, d, J=8.8 Hz), 6.34 (1H, m), 7.30-7.31 (1H, m), 7.71 (1H, m), 7.99-8.01 (1H, m), 8.46 (1H, m). white crystal m.p. 203.7°C

985	¹H-NMR δ (CDCl₃, ppm): 0.72 (3H, d, J=6.8 Hz), 0.81 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.3 Hz), 0.98 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.3 Hz), 1.85-1.92 (2H, m), 1.96-2.02 (1H, m), 2.58 (3H, s), 3.43-3.46 (1H, m), 3.73-3.78 (1H, m), 3.83 (2H, d, J=6.3 Hz), 3.90-3.93 (1H, m), 4.01-4.03 (1H, m), 5.23 (1H, d, J=8.3 Hz), 6.36 (1H, d, J=7.3 Hz), 7.29-7.31 (1H, m), 7.74-7.78 (1H, m), 7.99-8.00 (1H, m), 8.40 (1H, m). white crystal m.p. 190.4°C
986	¹H-NMR δ (CDCl₃, ppm): 0.72 (3H, d, J=6.8 Hz), 0.79 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.3 Hz), 0.99 (3H, d, J=6.3 Hz), 1.42 (9H, s), 1.87-1.88 (1H, m), 1.90 (1H, m), 2.55 (3H, s), 3.49 (1H, m), 3.64-3.66 (1H, m), 3.82-3.83 (1H, m), 4.01-4.04 (1H, m), 5.00 (1H, m), 6.30 (1H, m), 7.27-7.28 (1H, m), 7.70-7.74 (1H, m), 7.95-7.97 (1H, m), 8.40 (1H, m). white crystal m.p. 155.5°C

Properties of Compound (72) in Table 2

Compo und No.	Properties
987	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=7.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.23 (3H, t, J=7.3 Hz), 1.84-1.87 (1H, m), 2.02-2.03 (1H, m), 3.47-3.51 (1H, m), 3.62-3.70 (1H, m), 3.88-3.92 (1H, m), 4.01-4.06 (1H, m), 4.11 (2H, q, J=7.3 Hz), 5.21 (1H, d, J=7.3 Hz), 6.31 (1H, d, J=8.8 Hz), 7.07-7.09 (1H, m), 7.92 (1H, m), 7.94-7.98 (1H, m), 8.04-8.07 (1H, m). white crystal m.p. 162.4°C
988	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.21 (6H, d, J=6.3 Hz), 1.86 (1H, m), 2.01-2.03 (1H, m), 3.48-3.52 (1H, m), 3.60-3.68 (1H, m), 3.85-3.89 (1H, m), 4.01-4.03 (1H, m), 4.87-4.90 (1H, m), 5.12 (1H, d, J=9.3 Hz), 6.24 (1H, d, J=8.8 Hz), 7.07-7.09 (1H, m), 7.92 (1H, m), 7.94-7.98 (1H, m), 8.04-8.07 (1H, m). white crystal m.p. 180.9°C
989	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 0.97 (3H, d, J=7.3 Hz), 0.98 (3H, d, J=7.3 Hz), 1.86-1.91 (2H, m), 2.02-2.09 (1H, m), 3.47-3.52 (1H, m), 3.63-3.65 (1H, m), 3.84 (2H, d, J=6.8 Hz), 3.87-3.91 (1H, m), 4.01-4.03 (1H, m), 5.20 (1H, d, J=9.8 Hz), 6.20 (1H, d, J=8.3 Hz), 7.07-7.09 (1H, m), 7.92 (1H, m), 7.94-7.98 (1H, m), 8.05-8.07 (1H, m). white crystal m.p. 173.7°C
991	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.3 Hz), 0.83 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.23 (3H, t, J=7.3 Hz), 1.86-1.88 (1H, m), 2.02-2.05 (1H, m), 3.47-3.52 (1H, m), 3.64-3.67 (1H, m), 3.89-3.93 (1H, m), 4.02-4.06 (1H, m), 4.11 (2H, q, J=7.3 Hz), 5.22 (1H, d, J=8.3 Hz), 6.28 (1H, d, J=8.8 Hz), 7.59-7.61 (1H, m), 7.69-7.72 (1H, m), 8.05-8.07 (1H, m), 8.10-8.12 (1H, m). white crystal m.p. 182.8°C

992	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.97-1.99 (2H, m), 3.45-3.50 (1H, m), 3.50-3.60 (1H, m), 3.80-4.00 (2H, m), 5.20 (1H, m), 7.45 (1H, m), 7.63 (1H, s), 8.18-8.20 (1H, m), 8.41-8.43 (1H, m), 8.51 (1H, m), 9.10-9.11 (1H, m). white crystal m.p. 207.7°C
993	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.84 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (6H, d, J=6.3 Hz), 1.86-1.93 (2H, m), 2.03-2.04 (1H, m), 3.74 (2H, d, J=6.3 Hz), 3.83-3.90 (4H, m), 5.20 (1H, m), 6.20 (1H, m), 7.56-7.63 (1H, m), 7.66-7.73 (1H, m), 8.03-8.12 (1H, m), 8.23 (1H, m). white crystal m.p. 209.6°C
995	¹ H-NMR δ (CDCl ₃ , ppm): 0.73 (3H, d, J=6.8 Hz), 0.81 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=7.3 Hz), 0.99 (3H, d, J=6.8 Hz), 1.23 (3H, t, J=7.3 Hz), 1.87-1.92 (1H, m), 1.95-2.04 (1H, m), 3.47-3.53 (1H, m), 3.63-3.74 (1H, m), 3.79-3.91 (1H, m), 3.98 (3H, s), 4.01-4.08 (1H, m), 4.10 (2H, q, J=7.3 Hz), 5.18 (1H, d, J=6.8 Hz), 6.26 (1H, d, J=8.8 Hz), 8.23-8.25 (1H, m), 8.32 (1H, m), 8.43-8.45 (1H, m), 9.11 (1H, m). white crystal m.p. 189.9°C

Properties of Compound (73) in Table 2

Compo und No.	Properties
996	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.80 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.20 (6H, d, J=6.3 Hz), 1.87-1.89 (1H, m), 1.95-2.02 (1H, m), 3.49-3.54 (1H, m), 3.64-3.66 (1H, m), 3.85-3.89 (1H, m), 3.98 (3H, s), 4.03-4.05 (1H, m), 4.86-4.89 (1H, m), 5.11 (1H, d, J=8.8 Hz), 6.23 (1H, d, J=8.3 Hz), 8.23-8.25 (1H, m), 8.33 (1H, m), 8.43-8.45 (1H, m), 9.11-9.12 (1H, m). white crystal m.p. 191.8°C
997	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.81 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 0.97 (3H, d, J=7.3 Hz), 0.99 (3H, d, J=6.8 Hz), 1.86-1.91 (2H, m), 2.01-2.02 (1H, m), 3.49-3.54 (1H, m), 3.66-3.67 (1H, m), 3.83 (1H, d, J=6.3 Hz), 3.87-3.91 (1H, m), 3.98 (3H, s), 4.03-4.05 (1H, m), 5.20 (1H, d, J=8.8 Hz), 6.24 (1H, d, J=8.8 Hz), 8.24-8.26 (1H, m), 8.34 (1H, m), 8.44-8.46 (1H, m), 9.12 (1H, m). white crystal m.p. 180.6°C
998	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.79 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.3 Hz), 1.42 (9H, s), 1.90 (1H, m), 1.95 (1H, m), 3.55 (1H, m), 3.63-3.66 (1H, m), 3.78-3.82 (1H, m), 3.98 (3H, s), 3.99 (1H, m), 5.00 (1H, m), 6.20 (1H, m), 8.24-8.25 (1H, m), 8.30 (1H, m), 8.43-8.46 (1H, m), 9.11-9.12 (1H, m). white crystal m.p. 150.3°C
999	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.3 Hz), 1.23 (3H, t, J=6.8 Hz), 1.85-1.86 (1H, m), 1.98-2.02 (1H, m), 3.54-3.59 (2H, m), 3.96-4.00 (2H, m), 4.07 (2H, q, J=6.8 Hz), 5.97 (1H, d, J=8.8 Hz), 7.46 (1H, d, J=8.8 Hz), 7.58 (1H, s), 8.18-8.20 (1H, m), 8.41-8.44 (1H, m), 8.50 (1H, m), 9.10-9.11 (1H, m). white crystal m.p. 237.1°C

1000	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=5.8 Hz), 1.20 (3H, d, J=6.3 Hz), 1.22 (3H, d, J=6.3 Hz), 1.85-1.87 (1H, m), 1.98-2.02 (1H, m), 3.56-3.60 (2H, m), 3.96-4.00 (2H, m), 4.82-4.86 (1H, m), 5.69 (1H, d, J=9.3 Hz), 7.33 (1H, d, J=9.3 Hz), 7.50 (1H, s), 8.19-8.21 (1H, m), 8.41-8.44 (1H, m), 8.48 (1H, m), 9.11-9.12 (1H, m). white crystal m.p. 253.1°C
1001	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.3 Hz), 1.85-1.89 (2H, m), 1.99-2.02 (1H, m), 3.56-3.60 (2H, m), 3.79-3.82 (2H, m), 3.98 (2H, d, J=6.3 Hz), 5.82 (1H, d, J=9.3 Hz), 7.41 (1H, d, J=8.8 Hz), 7.51 (1H, s), 8.20-8.22 (1H, m), 8.42-8.44 (1H, m), 8.49 (1H, m), 9.11-9.12 (1H, m). white crystal m.p. 244.6°C
1002	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.97-1.99 (2H, m), 3.45-3.50 (1H, m), 3.50-3.60 (1H, m), 3.80-4.00 (2H, m), 5.20 (1H, m), 7.45 (1H, m), 7.63 (1H, s), 8.18-8.20 (1H, m), 8.41-8.43 (1H, m), 8.51 (1H, m), 9.10-9.11 (1H, m). white solid

Properties of Compound (74) in Table 2

Compo und No.	Properties
1003	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.3 Hz), 1.00 (3H, d, J=6.8 Hz), 1.24 (3H, t, J=7.3 Hz), 1.96-1.97 (1H, m), 2.03-2.06 (1H, m), 3.49-3.52 (1H, m), 3.63-3.67 (1H, m), 3.89-3.90 (1H, m), 4.06 (1H, m), 4.09 (2H, q, J=7.3 Hz), 5.14 (1H, m), 6.24 (1H, d, J=6.3 Hz), 8.10 (1H, m), 8.52-8.55 (1H, m), 8.74-8.77 (1H, m), 9.36-9.38 (1H, m). white crystal m.p. 172.1°C
1004	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.76 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.3 Hz), 0.99 (3H, d, J=6.3 Hz), 1.13 (3H, d, J=6.3 Hz), 1.19 (3H, d, J=6.3 Hz), 2.04-2.06 (2H, m), 3.50-3.54 (1H, m), 3.61-3.67 (1H, m), 3.86-3.89 (1H, m), 4.03-4.05 (1H, m), 4.84-4.89 (1H, m), 5.09 (1H, m), 6.24 (1H, d, J=8.3 Hz), 8.11 (1H, m), 8.52-8.55 (1H, m), 8.73-8.76 (1H, m), 9.36-9.38 (1H, m). white crystal m.p. 177.1°C
1005	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 0.91 (6H, d, J=6.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.8 Hz), 1.89-1.99 (2H, m), 2.04-2.05 (1H, m), 3.51-3.54 (1H, m), 3.66 (1H, m), 3.84 (2H, d, J=6.3 Hz), 3.88 (1H, dd, J=6.3, 8.7 Hz), 4.03-4.05 (1H, m), 5.18 (1H, m), 6.24 (1H, d, J=7.8 Hz), 8.11 (1H, m), 8.52-8.55 (1H, m), 8.74-8.77 (1H, m), 9.36-9.38 (1H, m). white crystal m.p. 166.8°C
1006	¹ H-NMR δ (CDCl ₃ , ppm): 0.74 (3H, d, J=6.3 Hz), 0.78 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.3 Hz), 1.03 (3H, d, J=6.3 Hz), 1.43 (9H, s), 1.82 (1H, m), 2.03 (1H, m), 3.57 (1H, m), 3.61-3.66 (1H, m), 3.80-3.85 (1H, m), 4.08 (1H, m), 4.99 (1H, m), 6.19 (1H, m), 8.11 (1H, m), 8.52-8.55 (1H, m), 8.73-8.76 (1H, m), 9.37-9.38 (1H, m). white crystal m.p. 140.7°C

1007	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.3 Hz), 0.83 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.3 Hz), 1.24 (3H, t, J=6.8 Hz), 1.85-1.93 (1H, m), 2.03-2.08 (1H, m), 2.65 (3H, s), 3.46-3.50 (1H, m), 3.65-3.72 (1H, m), 3.87-3.91 (1H, m), 3.99-4.06 (1H, m), 4.11 (2H, q, J=6.8 Hz), 5.14 (1H, d, J=8.3 Hz), 6.25 (1H, d, J=8.8 Hz), 8.02 (1H, m), 8.37-8.39 (1H, m), 9.22-9.23 (1H, m). white crystal m.p. 193.5°C
1008	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.22 (6H, d, J=6.3 Hz), 1.86-1.91 (1H, m), 2.02-2.06 (1H, m), 2.65 (3H, s), 3.46-3.52 (1H, m), 3.63-3.70 (1H, m), 3.86-3.99 (1H, m), 4.00-4.06 (1H, m), 4.83-4.91 (1H, m), 5.07 (1H, d, J=8.8 Hz), 6.22 (1H, d, J=8.8 Hz), 8.03 (1H, m), 8.37-8.39 (1H, m), 9.22-9.23 (1H, m). white crystal m.p. 188.8°C
1009	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.82 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.99 (3H, d, J=6.8 Hz), 1.02 (3H, d, J=6.3 Hz), 1.86-1.91 (2H, m), 2.03-2.05 (1H, m), 2.65 (3H, s), 3.48-3.52 (1H, m), 3.64-3.68 (1H, m), 3.84 (1H, d, J=6.3 Hz), 3.88-3.92 (1H, m), 4.02-4.04 (1H, m), 5.20 (1H, d, J=7.3 Hz), 6.28 (1H, d, J=8.3 Hz), 8.04 (1H, m), 8.37-8.39 (1H, m), 9.22-9.23 (1H, m). white crystal m.p. 159.7°C

Properties of Compound (75) in Table 2

Compo und No.	Properties
1011	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.84 (3H, d, J=6.8 Hz), 0.93-1.03 (6H, m), 1.88 (1H, q, J=6.8 Hz), 2.04 (1H, q, J=6.8 Hz), 3.43-3.47 (1H, m), 3.60-3.72 (2H, m), 3.67 (3H, s), 3.90-4.00 (1H, m), 4.01 (3H, s), 4.04 (3H, s), 5.17 (1H, br), 6.23 (1H, d, J=8.8 Hz), 7.12-7.15 (1H, m), 8.14 (1H, br). white solid
1012	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.22-1.27 (3H, m), 1.86-1.91 (1H, m), 2.01-2.06 (1H, m), 3.46-3.50 (2H, m), 3.53-3.60 (1H, m), 3.88-4.00 (1H, m), 4.01 (3H, s), 4.05 (3H, s), 4.09-4.12 (2H, m), 5.06 (1H, br), 6.22 (1H, br), 7.13-7.15 (1H, m), 7.97 (1/2H, br), 8.07 (1/2H, br). white crystal m.p. 178.6°C
1013	¹ H-NMR δ (CDCl ₃ , ppm): 0.79 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.94 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.19-1.27 (6H, m), 1.86-1.92 (1H, m), 1.99-2.06 (1H, m), 3.46-3.50 (1H, m), 3.52-3.60 (1H, m), 3.84-3.90 (1H, m), 4.01 (3H, s), 4.05 (3H, s), 4.06-4.08 (1H, m), 4.86-4.91 (1H, m), 5.06 (1H, br), 6.08 (1H, br), 7.13-7.15 (1H, m), 8.11 (1H, br). white crystal m.p. 186.0°C
1015	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.42 (9/2H, s), 1.45 (9/2H, s), 1.86-1.91 (1H, m), 2.05-2.11 (1H, m), 3.46-3.50 (2H, m), 3.54-3.61 (1H, m), 3.89-4.00 (1H, m), 4.01 (3H, s), 4.05 (3H, s), 4.95 (1H, br), 6.23 (1H, br), 7.13-7.15 (1H, m), 7.97 (1H, br). white solid

1017	¹ H-NMR δ (CDCl ₃ , ppm): 0.85 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=7.3 Hz), 1.00 (3H, d, J=6.8 Hz), 1.20 (3H, d, J=6.3 Hz), 1.23 (3H, d, J=6.3 Hz), 1.84-1.91 (1H, m), 2.10-2.15 (1H, m), 3.45 (1H, m), 3.59 (1H, m), 3.89 (1H, dd, J=6.3, 7.8 Hz), 3.92-3.97 (1H, m), 4.88 (1H, q, J=6.3 Hz), 5.03 (1H, m), 6.17 (1H, d, J=6.8 Hz), 7.03 (1H, m), 7.04 (1H, dd, J=3.9, 4.9 Hz), 7.44-7.46 (1H, m), 7.51 (1H, d, J=2.9 Hz). white crystal m.p. 212.6°C
1018	¹ H-NMR δ (CDCl ₃ , ppm): 0.85 (6H, d, J=6.8 Hz), 0.91 (6H, d, J=6.8 Hz), 0.98 (3H, d, J=7.3 Hz), 1.00 (3H, d, J=6.8 Hz), 1.84-1.93 (2H, m), 2.11-2.13 (1H, m), 3.48-3.52 (1H, m), 3.56 (1H, m), 3.84 (2H, d, J=6.8 Hz), 3.90 (1H, dd, J=6.8, 7.8 Hz), 3.92-3.95 (1H, m), 5.11 (1H, m), 6.18 (1H, m), 6.98 (1H, m), 7.05 (1H, dd, J=3.9, 5.4 Hz), 7.44-7.46 (1H, m), 7.51 (1H, d, J=3.9 Hz). white crystal m.p. 204.9°C
1019	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=7.3 Hz), 1.00 (3H, d, J=7.3 Hz), 1.42 (9H, s), 1.85-1.90 (1H, m), 2.10-2.17 (1H, m), 3.35 (1H, m), 3.66-3.69 (1H, m), 3.83 (1H, dd, J=6.3, 7.3 Hz), 3.91-3.98 (1H, m), 4.96 (1H, m), 6.19 (1H, d, J=7.8 Hz), 7.04 (1H, dd, J=3.9, 5.4 Hz), 7.12 (1H, m), 7.43-7.45 (1H, m), 7.54 (1H, d, J=3.4 Hz). white crystal m.p. 172.7°C

Properties of Compound (76) in Table 2

Compo und No.	Properties
1020	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.3 Hz), 0.89 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.22 (3H, t, J=6.8 Hz), 1.86-1.91 (1H, m), 2.06-2.11 (1H, m), 2.51 (3H, s), 3.46-3.50 (1H, m), 3.53-3.57 (1H, m), 3.92 (1H, dd, J=6.3, 8.3 Hz), 3.95-3.98 (1H, m), 4.08 (2H, q, J=6.8 Hz), 5.15 (1H, d, J=7.3 Hz), 6.27 (1H, d, J=8.3 Hz), 6.48 (1H, m), 6.86 (1H, d, J=4.9 Hz), 7.25 (1H, d, J=6.8 Hz). white crystal m.p. 180.6°C
1021	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.8 Hz), 0.89 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.20 (3H, d, J=6.3 Hz), 1.22 (3H, d, J=6.3 Hz), 1.84-1.91 (1H, m), 2.09-2.12 (1H, m), 2.51 (3H, s), 3.51-3.54 (2H, m), 3.88-3.91 (1H, m), 3.93-3.98 (1H, m), 4.85-4.88 (1H, m), 5.04 (1H, m), 6.17 (1H, d, J=7.8 Hz), 6.49 (1H, m), 6.86 (1H, d, J=5.4 Hz), 7.25 (1H, d, J=5.4 Hz). white crystal m.p. 206.9°C
1022	¹ H-NMR δ (CDCl ₃ , ppm): 0.82 (6H, d, J=6.8 Hz), 0.89 (3H, d, J=6.3 Hz), 0.90 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.84-1.91 (2H, m), 2.08-2.10 (1H, m), 2.51 (3H, s), 3.47-3.56 (2H, m), 3.82 (2H, d, J=6.3 Hz), 3.91 (1H, dd, J=6.3, 8.8 Hz), 3.94-3.98 (1H, m), 5.15 (1H, d, J=6.3 Hz), 6.20 (1H, d, J=6.3 Hz), 6.48 (1H, m), 6.86 (1H, d, J=5.4 Hz), 7.25 (1H, d, J=5.9 Hz). white crystal m.p. 187.9°C
1023	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.8 Hz), 0.89 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.85-1.90 (1H, m), 2.07-2.12 (1H, m), 2.51 (3H, s), 3.43-3.50 (1H, m), 3.53-3.58 (1H, m), 3.83 (1H, dd, J=6.8, 8.3 Hz), 3.92-3.99 (1H, m), 4.96 (1H, m), 6.19 (1H, d, J=7.8 Hz), 6.55 (1H, m), 6.85 (1H, d, J=4.9 Hz), 7.24 (1H, d, J=4.9 Hz). white crystal m.p. 168.5°C

1024	¹H-NMR δ (CDCl₃, ppm): 0.83 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.23 (3H, t, J=6.8 Hz), 1.83-1.92 (1H, m), 2.07-2.17 (1H, m), 2.49 (3H, s), 3.48-3.51 (2H, m), 3.90 (1H, dd, J=6.3, 7.7 Hz), 3.93-3.95 (1H, m), 4.12 (2H, q, J=6.8 Hz), 5.11 (1H, m), 6.19 (1H, d, J=7.8 Hz), 6.70 (1H, d, J=3.4 Hz), 6.79 (1H, m), 7.31 (1H, d, J=3.4 Hz). white crystal m.p. 183.1°C
1025	¹H-NMR δ (CDCl₃, ppm): 0.84 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.99 (3H, d, J=6.8 Hz), 1.20 (6H, d, J=6.3 Hz), 1.85-1.90 (1H, m), 2.08-2.13 (1H, m), 2.49 (3H, s), 3.46-3.48 (1H, m), 3.54 (1H, m), 3.88-3.91 (2H, m), 4.85-4.91 (1H, m), 5.07 (1H, m), 6.23 (1H, d, J=5.9 Hz), 6.69 (1H, d, J=2.9 Hz), 6.86 (1H, m), 7.31 (1H, d, J=3.4 Hz). white crystal m.p. 188.6°C

Properties of Compound (77) in Table 2

Compo und No.	Properties
1026	¹ H-NMR δ (CDCl ₃ , ppm): 0.84 (6H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.85-1.90 (2H, m), 2.08-2.13 (1H, m), 2.49 (3H, s), 3.50-3.51 (2H, m), 3.83 (2H, d, J=6.3 Hz), 3.90 (1H, dd, J=6.3, 8.3 Hz), 3.93-3.95 (1H, m), 5.15 (1H, d, J=7.3 Hz), 6.22 (1H, d, J=7.3 Hz), 6.69 (1H, d, J=2.9 Hz), 6.81 (1H, m), 7.31 (1H, d, J=3.4 Hz). white crystal m.p. 176.3°C
1027	¹ H-NMR δ (CDCl ₃ , ppm): 0.86 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.82-1.90 (1H, m), 2.11-2.14 (1H, m), 2.48 (3H, s), 3.37 (1H, m), 3.61-3.67 (1H, m), 3.82-3.85 (1H, m), 3.91-3.93 (1H, m), 4.99 (1H, m), 6.23 (1H, m), 6.69 (1H, d, J=2.9 Hz), 6.95 (1H, m), 7.33 (1H, d, J=3.4 Hz). white crystal m.p. 149.1°C
1028	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.24 (3H, t, J=6.8 Hz), 1.84-1.91 (1H, m), 2.10-2.17 (1H, m), 3.41-3.44 (1H, m), 3.58-3.61 (1H, m), 3.90 (1H, dd, J=6.3, 7.8 Hz), 3.93-3.95 (1H, m), 4.10 (1H, q, J=6.8 Hz), 5.15 (1H, d, J=7.8 Hz), 6.27 (1H, d, J=7.8 Hz), 6.86 (1H, d, J=3.9 Hz), 7.15 (1H, m), 7.30 (1H, d, J=3.9 Hz). white crystal m.p. 193.7°C
1029	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=7.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.21 (3H, d, J=6.3 Hz), 1.23 (3H, d, J=6.3 Hz), 1.84-1.91 (1H, m), 2.11-2.17 (1H, m), 3.36-3.39 (1H, m), 3.61-3.66 (1H, m), 3.87-3.95 (2H, m), 4.83-4.92 (1H, m), 5.07 (1H, d, J=7.8 Hz), 6.24 (1H, d, J=7.8 Hz), 6.85 (1H, d, J=4.4 Hz), 7.19 (1H, m), 7.31 (1H, d, J=3.9 Hz). white crystal m.p. 205.2°C

1030	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.3 Hz), 0.97 (6H, d, J=6.8 Hz), 0.99 (6H, d, J=7.3 Hz), 1.84-1.91 (2H, m), 2.10-2.15 (1H, m), 3.36-3.43 (1H, m), 3.58-3.61 (1H, m), 3.84 (2H, d, J=6.3 Hz), 3.88-3.95 (2H, m), 5.15 (1H, d, J=7.8 Hz), 6.24 (1H, d, J=7.3 Hz), 6.85 (1H, d, J=3.9 Hz), 7.14 (1H, m), 7.29 (1H, d, J=3.9 Hz). white crystal m.p. 187.7°C
1031	¹ H-NMR δ (CDCl ₃ , ppm): 0.90 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.43 (9H, s), 1.81-1.88 (1H, m), 2.11-2.18 (1H, m), 3.22 (1H, m), 3.72 (1H, m), 3.80-3.89 (1H, m), 3.91-3.95 (1H, m), 4.94 (1H, m), 6.14 (1H, m), 6.85 (1H, d, J=3.9 Hz), 7.22 (1H, m), 7.33 (1H, d, J=3.9 Hz). white crystal m.p. 175.0°C
1032	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.23 (3H, t, J=6.8 Hz), 1.85-1.90 (1H, m), 2.04-2.08 (1H, m), 3.46-3.50 (1H, m), 3.68-3.70 (1H, m), 3.91-4.01 (2H, m), 4.09-4.13 (2H, m), 5.16 (1H, d, J=6.8 Hz), 6.27 (1H, d, J=8.8 Hz), 6.95-6.96 (1H, m), 7.22 (1H, m), 7.45-7.46 (1H, m). white crystal m.p. 173.9°C

Properties of Compound (78) in Table 2

Compo und No.	Properties
1033	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.3 Hz), 1.22 (6H, d, J=6.3 Hz), 1.85-1.91 (1H, m), 2.04-2.10 (1H, m), 3.46-3.52 (1H, m), 3.63-3.72 (1H, m), 3.89-3.92 (1H, m), 3.99-4.01 (1H, m), 4.86-4.91 (1H, m), 5.06 (1H, m), 6.21 (1H, d, J=8.3 Hz), 6.95-6.99 (1H, m), 7.23 (1H, m), 7.44-7.46 (1H, m). white crystal m.p. 194.2°C
1034	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.3 Hz), 1.85-1.93 (2H, m), 2.08 (1H, m), 3.45-3.51 (1H, m), 3.61-3.73 (1H, m), 3.83 (2H, d, J=6.3 Hz), 3.91 (1H, dd, J=6.3, 8.7 Hz), 3.69-4.00 (1H, m), 5.15-5.16 (1H, m), 6.20 (1H, d, J=7.8 Hz), 6.95-6.96 (1H, m), 7.22 (1H, m), 7.45-7.46 (1H, m). white crystal m.p. 178.7°C
1035	¹ H-NMR δ (CDCl ₃ , ppm): 0.80 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.3 Hz), 1.42 (9H, s), 1.83-1.91 (1H, m), 2.04-2.09 (1H, m), 3.49-3.55 (1H, m), 3.60-3.67 (1H, m), 3.83 (1H, dd, J=6.3, 8.7 Hz), 3.69-3.99 (1H, m), 4.97 (1H, m), 6.18 (1H, d, J=8.3 Hz), 6.95-6.96 (1H, m), 7.23 (1H, m), 7.44-7.45 (1H, m). white crystal m.p. 175.5°C
1037	ESI-MS M ⁺ : 501 white solid
1040	¹ H-NMR δ (CDCl ₃ , ppm): 0.84 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.23 (3H, t, J=6.8 Hz), 1.86-1.89 (1H, m), 2.09-2.13 (1H, m), 3.46-3.50 (1H, m), 3.57 (1H, m), 3.90 (1H, dd, J=6.3, 7.8 Hz), 3.93-3.94 (1H, m), 4.10 (2H, q, J=6.8 Hz), 5.10 (1H, m), 6.21 (1H, d, J=7.8 Hz), 6.99 (1H, m), 7.28-7.30 (1H, m), 7.40-7.42 (1H, m), 7.90-7.91 (1H, m). white crystal m.p. 212.3°C

1041	¹ H-NMR (CDCl ₃ , ppm): 0.86 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=7.3 Hz), 1.00 (3H, d, J=7.3 Hz), 1.20 (3H, d, J=6.3 Hz), 1.23 (3H, d, J=5.9 Hz), 1.87-1.92 (1H, m), 2.11-2.16 (1H, m), 3.42 (1H, m), 3.61-3.64 (1H, m), 3.89 (1H, dd, J=6.3, 7.8 Hz), 3.91-3.95 (1H, m), 4.84-4.92 (1H, m), 5.03 (1H, m), 6.18 (1H, d, J=8.3 Hz), 7.00 (1H, m), 7.28-7.30 (1H, m), 7.41-7.43 (1H, m), 7.91-7.92 (1H, m). white crystal m.p. 225.0°C
1042	¹ H-NMR δ (CDCl ₃ , ppm): 0.86 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=7.3 Hz), 1.00 (3H, d, J=6.8 Hz), 1.86-1.92 (2H, m), 2.10-2.14 (1H, m), 3.46-3.50 (1H, m), 3.57-3.60 (1H, m), 3.83 (1H, d, J=6.3 Hz), 3.88-3.97 (2H, m), 5.12 (1H, m), 6.21 (1H, m), 7.00 (1H, m), 7.28-7.31 (1H, m), 7.41-7.42 (1H, m), 7.90-7.91 (1H, m). white crystal m.p. 213.4°C

Properties of Compound (79) in Table 2

Compo und No.	Properties
1043	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.86-1.88 (1H, m), 2.12-2.14 (1H, m), 3.30 (1H, m), 3.70 (1H, m), 3.81-3.85 (1H, m), 3.93 (1H, m), 4.90 (1H, m), 6.20 (1H, m), 7.10 (1H, m), 7.27-7.29 (1H, m), 7.43-7.44 (1H, m), 7.92-7.93 (1H, m). white crystal m.p. 184.6°C
1044	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 0.93 (6H, d, J=6.8 Hz), 1.25 (3H, t, J=6.8 Hz), 1.82-1.93 (3H, m), 2.01-2.03 (1H, m), 2.15-2.29 (2H, m), 3.33-3.37 (2H, m), 3.84-3.96 (4H, m), 4.10-4.13 (2H, m), 4.31-4.37 (1H, m), 5.20 (1H, m), 6.80 (1H, m). white crystal m.p. 146.5°C
1045	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.3 Hz), 1.22-1.25 (6H, m), 1.84-1.93 (3H, m), 2.01-2.02 (1H, m), 2.26-2.29 (2H, m), 3.35-3.36 (2H, m), 3.84-3.97 (4H, m), 4.33-4.37 (1H, m), 4.88-4.91 (1H, m), 5.10 (1H, m), 6.82 (1H, m). white crystal m.p. 167.2°C
1048	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.23 (3H, t, J=7.3 Hz), 1.84-1.89 (1H, m), 2.03-2.08 (1H, m), 3.42-3.46 (1H, m), 3.60-3.62 (1H, m), 3.90 (1H, dd, J=6.3, 8.3 Hz), 3.93-3.98 (1H, m), 4.11 (2H, q, J=7.3 Hz), 5.14 (1H, d, J=7.3 Hz), 6.18 (1H, d, J=8.8 Hz), 6.47 (1H, dd, J=1.9, 3.4 Hz), 6.82 (1H, m), 7.08 (1H, d, J=3.4 Hz), 7.42 (1H, d, J=0.9 Hz). white crystal m.p. 213.3°C

1049	¹ H-NMR δ (CDCl ₃ , ppm): 0.80 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.3 Hz), 1.21 (6H, d, J=6.3 Hz), 1.84-1.89 (1H, m), 2.02-2.07 (1H, m), 3.43-3.49 (1H, m), 3.55-3.63 (1H, m), 3.89 (1H, dd, J=6.8,8.3 Hz), 3.93-3.99 (1H, m), 4.85-4.91 (1H, m), 5.08 (1H, d, J=6.8 Hz), 6.18 (1H, d, J=8.8 Hz), 6.47 (1H, dd, J=1.5,3.4 Hz), 6.85 (1H, m), 7.07 (1H, d, J=3.4 Hz), 7.42 (1H, m). white crystal m.p. 207.0°C
1050	¹ H-NMR δ (CDCl ₃ , ppm): 0.80 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.84-1.92 (2H, m), 2.04-2.06 (1H, m), 3.43-3.47 (1H, m), 3.57-3.63 (1H, m), 3.84 (2H, d, J=6.3 Hz), 3.90 (1H, dd, J=8.7,2.4 Hz), 3.96-3.98 (1H, m), 5.17 (1H, d, J=7.8 Hz), 3-6017 (1H, d, J=7.3 Hz), 6.47-6.48 (1H, m), 6.83 (1H, m), 7.07 (1H, dd, J=0.9,3.4 Hz), 7.42 (1H, d, J=0.9 Hz). white crystal m.p. 200.1°C
1051	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.99 (3H, d, J=6.3 Hz), 1.42 (9H, s), 1.84-1.89 (1H, m), 2.05-2.07 (1H, m), 3.50-3.54 (2H, m), 3.81 (1H, dd, J=6.8,8.7 Hz), 3.94-3.98 (1H, m), 4.98 (1H, m), 6.16 (1H, d, J=8.8 Hz), 6.46 (1H, dd, J=1.9,3.4 Hz), 6.89 (1H, m), 7.08 (1H, d, J=3.4 Hz), 7.42 (1H, d, J=0.9 Hz). white crystal m.p. 155.9°C

Properties of Compound (80) in Table 2

Compo und No.	Properties
1052	¹ H-NMR (CDCl ₃ , ppm): 0.74 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.3 Hz), 1.23 (3H, t, J=6.8 Hz), 1.84-1.89 (1H, m), 2.00-2.09 (1H, m), 2.37 (3H, s), 3.34-3.37 (1H, m), 3.62-3.67 (1H, m), 3.91-3.94 (2H, m), 4.10 (2H, q, J=6.8 Hz), 5.18 (1H, m), 6.20 (1H, m), 6.31-6.32 (1H, m), 6.66 (1H, m), 7.27-7.28 (1H, m). white crystal m.p. 154.0°C
1053	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.20 (3H, d, J=5.8 Hz), 1.22 (3H, d, J=6.3 Hz), 1.84-1.87 (1H, m), 2.02-2.05 (1H, m), 2.37 (3H, s), 3.35-3.40 (1H, m), 3.62-3.64 (1H, m), 3.88-3.99 (2H, m), 4.84-4.91 (1H, m), 5.11 (1H, m), 6.16 (1H, d, J=8.3 Hz), 6.31 (1H, m), 6.68 (1H, m). white crystal m.p. 173.9°C
1054	¹ H-NMR δ (CDCl ₃ , ppm): 0.75 (3H, d, J=6.3 Hz), 0.85 (3H, d, J=6.3 Hz), 0.90 (6H, d, J=6.3 Hz), 0.96 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 1.84-1.92 (2H, m), 2.02-2.03 (1H, m), 2.37 (3H, s), 3.34-3.39 (1H, m), 3.63-3.67 (1H, m), 3.83 (1H, d, J=6.3 Hz), 3.90-3.99 (2H, m), 5.20 (1H, m), 6.20 (1H, m), 6.31-6.32 (1H, m), 6.67 (1H, m), 7.27-7.28 (1H, m). white crystal m.p. 154.8°C
1055	¹ H-NMR δ (CDCl ₃ , ppm): 0.76 (3H, d, J=6.8 Hz), 0.84 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.3 Hz), 1.42 (9H, s), 1.83-1.90 (1H, m), 2.00-2.08 (1H, m), 2.37 (3H, s), 3.38-3.44 (1H, m), 3.55-3.66 (1H, m), 3.81-3.85 (1H, m), 3.94-3.97 (1H, m), 6.20 (1H, m), 6.30-6.31 (1H, m), 6.71 (1H, m), 7.26 (1H, m). white crystal m.p. 137.8°C

1056	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.24 (3H, t, J=6.8 Hz), 1.83-1.91 (1H, m), 2.09-2.18 (1H, m), 3.40 (1H, m), 3.58 (1H, m), 3.87-3.94 (2H, m), 4.11 (2H, q, J=6.8 Hz), 5.08 (1H, m), 6.15 (1H, d, J=7.8 Hz), 6.66 (1H, m), 6.82 (1H, m), 7.39-7.40 (1H, m), 7.95 (1H, m). white crystal m.p. 227.2°C
1057	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.21 (3H, d, J=6.3 Hz), 1.24 (3H, d, J=6.3 Hz), 1.82-1.91 (1H, m), 2.10-2.18 (1H, m), 3.35 (1H, m), 3.61 (1H, m), 3.86-3.94 (2H, m), 4.85-4.91 (1H, m), 5.03 (1H, m), 6.14 (1H, d, J=7.8 Hz), 6.67 (1H, m), 6.88 (1H, m), 7.39-7.40 (1H, m), 7.95 (1H, m). white crystal m.p. 215.0°C
1058	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (6H, d, J=6.8 Hz), 0.92 (6H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.86-1.89 (2H, m), 2.09-2.16 (1H, m), 3.40-3.42 (1H, m), 3.58 (1H, m), 3.84 (2H, d, J=6.3 Hz), 3.87-3.90 (2H, m), 5.10 (1H, m), 6.16 (1H, m), 6.66 (1H, m), 6.84 (1H, m), 7.39-7.40 (1H, m), 7.95 (1H, m). white crystal m.p. 212.8°C

Properties of Compound (81) in Table 2

Compo und No.	Properties
1059	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.93 (6H, d, $J=6.8$ Hz), 0.97 (6H, d, $J=6.8$ Hz), 1.43 (9H, s), 1.81-1.89 (1H, m), 2.11-2.19 (1H, m), 3.22 (1H, m), 3.82 (1H, m), 3.88-3.96 (2H, m), 4.95 (1H, m), 6.13 (1H, m), 6.70 (1H, m), 6.95 (1H, m), 7.37-7.39 (1H, m), 7.97 (1H, m). white crystal m.p. 178.9°C
1060	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.85 (3H, d, $J=6.3$ Hz), 0.90 (3H, d, $J=6.8$ Hz), 0.97 (3H, d, $J=6.8$ Hz), 0.99 (3H, d, $J=6.8$ Hz), 1.23 (3H, t, $J=7.3$ Hz), 1.84-1.92 (1H, m), 2.07-2.41 (1H, m), 2.58 (3H, s), 3.45-3.51 (2H, m), 3.89-3.92 (2H, m), 4.11 (2H, q, $J=7.3$ Hz), 5.16 (1H, m), 6.29 (1H, m), 6.50 (1H, m), 6.69 (1H, m), 7.21 (1H, m). white crystal m.p. 136.3°C
1061	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.86 (3H, d, $J=6.8$ Hz), 0.91 (3H, d, $J=6.3$ Hz), 0.97 (3H, d, $J=6.3$ Hz), 0.99 (3H, d, $J=6.8$ Hz), 1.20 (6H, d, $J=6.3$ Hz), 1.87-1.88 (1H, m), 2.09-2.14 (1H, m), 2.58 (3H, s), 3.41 (1H, m), 3.54 (1H, m), 3.88-3.91 (2H, m), 4.85-4.91 (1H, m), 5.09 (1H, m), 6.25 (1H, m), 6.51 (1H, m), 6.73 (1H, m), 7.21 (1H, m). white crystal m.p. 176.0°C
1062	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.86 (6H, d, $J=6.8$ Hz), 0.91 (6H, d, $J=6.3$ Hz), 0.97 (3H, d, $J=6.3$ Hz), 0.98 (3H, d, $J=6.3$ Hz), 1.87-1.89 (2H, m), 2.11-2.12 (1H, m), 2.58 (3H, s), 3.44 (1H, m), 3.51 (1H, m), 3.84 (2H, d, $J=6.3$ Hz), 3.88-3.92 (2H, m), 5.16 (1H, m), 6.24 (1H, m), 6.50 (1H, m), 6.68 (1H, m), 7.21-7.22 (1H, m). white crystal m.p. 125.3°C
1063	$^1\text{H-NMR } \delta$ (CDCl_3 , ppm): 0.87 (3H, d, $J=6.8$ Hz), 0.91 (3H, d, $J=6.8$ Hz), 0.97 (3H, d, $J=6.8$ Hz), 1.00 (3H, d, $J=6.3$ Hz), 1.42 (9H, s), 1.84-1.89 (1H, m), 2.08-2.41 (1H, m), 2.57 (3H, s), 3.30 (1H, m), 3.61-3.65 (1H, m), 3.82-3.85 (1H, m), 3.91 (1H, m), 5.00 (1H, m), 6.27 (1H, m), 6.54 (1H, m), 6.80 (1H, m), 7.20 (1H, m). white crystal m.p. 106.2°C

1064	¹ H-NMR δ (CDCl ₃ , ppm): 0.80 (3H, d, J=5.8 Hz), 0.88 (3H, d, J=5.8 Hz), 0.97 (6H, m), 1.24 (3H, t, J=6.3 Hz), 1.95 (1H, m), 1.98 (3H, s), 2.07 (1H, m), 2.22 (3H, s), 3.41 (1H, m), 3.92 (2H, m), 4.10-4.12 (2H, m), 5.02 (1H, m), 6.35 (1H, m), 6.61 (1H, m), 6.87-6.90 (1H, m). white crystal m.p. 130.5°C
1065	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=5.8 Hz), 0.97 (3H, d, J=6.3 Hz), 1.21 (3H, d, J=6.3 Hz), 1.23 (3H, d, J=5.8 Hz), 1.85-1.91 (1H, m), 1.95 (3H, s), 2.05-2.12 (1H, m), 2.21 (3H, s), 3.40-3.44 (1H, m), 3.60-3.67 (1H, m), 3.89-3.94 (2H, m), 4.85-4.91 (1H, m), 5.17 (1H, d, J=8.3 Hz), 6.40 (1H, m), 6.67 (1H, m), 6.88 (1H, s). white crystal m.p. 134.7°C
1066	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.3 Hz), 0.86 (3H, d, J=6.8 Hz), 0.91 (6H, d, J=6.8 Hz), 0.95 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.3 Hz), 1.85-1.91 (2H, m), 1.95 (3H, s), 2.03-2.07 (1H, m), 2.22 (3H, s), 3.39-3.42 (1H, m), 3.61-3.66 (1H, m), 3.83 (2H, d, J=6.3 Hz), 3.90-3.93 (2H, m), 5.25 (1H, d, J=6.3 Hz), 6.39 (1H, m), 6.64 (1H, m), 6.87 (1H, m). white crystal m.p. 144.7°C

Properties of Compound (82) in Table 2

Compo und No.	Properties
1067	¹ H-NMR δ (CDCl ₃ , ppm): 0.82 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.3 Hz), 0.96 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.3 Hz), 1.43 (9H, s), 1.83-1.91 (1H, m), 1.94 (3H, s), 2.03-2.10 (1H, m), 2.21 (3H, s), 3.45-3.53 (1H, m), 3.61-3.67 (1H, m), 3.82-3.85 (1H, m), 3.94-3.97 (1H, m), 5.10 (1H, d, J=7.3 Hz), 6.42 (1H, m), 6.71-6.74 (1H, m), 6.88 (1H, m). white crystal m.p. 114.1°C
1068	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.8 Hz), 0.89 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=7.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.24 (3H, t, J=6.8 Hz), 1.83-1.88 (1H, m), 2.03-2.10 (1H, m), 3.44-3.47 (1H, m), 3.55-3.63 (1H, m), 3.91-4.01 (2H, m), 4.11 (2H, q, J=6.8 Hz), 5.22 (1H, m), 6.34 (1H, m), 6.41-6.44 (1H, m), 6.78 (1H, m), 7.03-7.04 (1H, m). white crystal m.p. 174.0°C
1069	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.8 Hz), 0.89 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.21 (3H, d, J=5.8 Hz), 1.23 (3H, d, J=5.8 Hz), 1.81-1.90 (1H, m), 2.03-2.12 (1H, m), 3.45-3.52 (1H, m), 3.54-3.56 (1H, m), 3.86-3.89 (1H, m), 3.93-4.00 (1H, m), 4.86-4.92 (1H, m), 5.08 (1H, d, J=5.3 Hz), 6.18 (1H, d, J=8.8 Hz), 6.41-6.44 (1H, m), 6.75 (1H, m), 7.03-7.04 (1H, m). white crystal m.p. 178.0°C
1070	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 0.91 (6H, d, J=6.8 Hz), 0.95 (3H, d, J=7.3 Hz), 0.97 (3H, d, J=7.3 Hz), 1.81-1.94 (2H, m), 2.02-2.08 (1H, m), 3.48 (1H, m), 3.57-3.64 (1H, m), 3.84 (2H, d, J=6.3 Hz), 3.91-3.99 (2H, m), 5.30 (1H, d, J=8.8 Hz), 6.41-6.44 (2H, m), 6.81-6.84 (1H, m), 7.03-7.04 (1H, m). white crystal m.p. 154.9°C

1071	¹H-NMR δ (CDCl₃, ppm): 0.85 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.43 (9H, s), 1.83-1.92 (1H, m), 2.03-2.10 (1H, m), 3.51 (2H, m), 3.60-3.69 (1H, m), 3.79-3.82 (1H, m), 3.93-3.98 (1H, m), 4.99 (1H, m), 6.19 (1H, m), 6.40-6.44 (1H, m), 6.80 (1H, m), 7.00-7.05 (1H, m). white crystal m.p. 117.5°C
1072	¹H-NMR δ (CDCl₃, ppm): 0.79 (3H, d, J=6.3 Hz), 0.86 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.88 (1H, q, J=6.8 Hz), 2.03-2.11 (1H, m), 3.47-3.50 (1H, m), 3.61-3.66 (1H, m), 3.67 (3H, s), 3.93-4.00 (1H, m), 4.01-4.06 (1H, m), 5.20 (1H, br), 6.23 (1H, d, J=8.7 Hz), 6.72 (1H, d, J=5.4 Hz), 7.05 (1H, br), 7.14 (1H, d, J=5.4 Hz), 7.32-7.36 (1H, m), 7.41-7.44 (2H, m), 7.73-7.77 (2H, m). white crystal: m.p. 182.2°C
1073	¹H-NMR δ (CDCl₃, ppm): 0.80 (3H, d, J=6.3 Hz), 0.86 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.21-1.27 (3H, m), 1.88-1.92 (1H, m), 2.05-2.11 (1H, m), 3.48-3.52 (1H, m), 3.60-3.63 (1H, m), 3.90-3.94 (1H, m), 4.00-4.03 (1H, m), 4.08-4.14 (2H, m), 5.14 (1H, br), 6.22 (1H, q, J=8.8 Hz), 6.72 (1H, q, J=3.4 Hz), 7.09 (1H, br), 7.16 (1H, q, J=3.4 Hz), 7.32-7.36 (1H, m), 7.41-7.44 (2H, m), 7.73-7.77 (2H, m). white crystal: m.p. 175.6°C

Properties of Compound (83) in Table 2

Compo und No.	Properties
1074	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.3 Hz), 0.86 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.20-1.25 (6H, m), 1.89 (1H, q, J=6.8 Hz), 2.08 (1H, q, J=6.8 Hz), 3.48-3.60 (2H, m), 3.89-3.93 (1H, m), 3.99-4.06 (1H, m), 4.89 (1H, q, J=6.8 Hz), 5.08 (1H, br), 6.20-6.22 (1H, m), 6.71 (1H, d, J=3.4 Hz), 7.09 (1H, br), 7.16 (1H, d, J=3.4 Hz), 7.32-7.36 (1H, m), 7.41-7.44 (2H, m), 7.73-7.77 (2H, m). white crystal: m.p. 220.8°C
1076	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.3 Hz), 0.86 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.44 (9H, s), 1.86-1.92 (1H, m), 2.06-2.12 (1H, m), 3.45-3.61 (2H, m), 3.84 (1H, q, J=6.8 Hz), 4.00-4.05 (1H, m), 4.98 (1H, br), 6.15-6.17 (1H, m), 6.72 (1H, d, J=8.8 Hz), 7.15 (1H, d, J=3.4 Hz), 7.32-7.36 (1H, m), 7.41-7.44 (2H, m), 7.73-7.78 (2H, m). white crystal: m.p. 198.3°C
1077	¹ H-NMR δ (CDCl ₃ , ppm): 0.77 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=7.8 Hz), 0.97 (3H, d, J=7.3 Hz), 1.23 (3H, t, J=6.8 Hz), 1.86-1.89 (1H, m), 2.04-2.06 (1H, m), 3.36-3.42 (1H, m), 3.55-3.63 (1H, m), 3.89-4.00 (2H, m), 4.03 (3H, s), 4.10 (2H, q, J=6.8 Hz), 5.21 (1H, m), 6.20 (1H, m), 6.94 (1H, m), 6.98 (1H, m), 7.62 (1H, m). white crystal m.p. 147.4°C
1078	¹ H-NMR δ (CDCl ₃ , ppm): 0.78 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.3 Hz), 0.95 (3H, d, J=7.3 Hz), 0.97 (3H, d, J=6.8 Hz), 1.21 (6H, d, J=5.8 Hz), 1.85-1.87 (1H, m), 2.04 (1H, m), 3.37-3.43 (1H, m), 3.54-3.62 (1H, m), 3.88 (1H, dd, J=6.3, 8.7 Hz), 3.95-3.97 (1H, m), 4.03 (3H, s), 4.84-4.91 (1H, m), 5.11 (1H, m), 6.19 (1H, m), 6.94 (1H, m), 6.98 (1H, m), 7.62 (1H, m). white crystal m.p. 156.0°C

1079	¹H-NMR δ (CDCl₃, ppm): 0.78 (3H, d, J=6.8 Hz), 0.86 (3H, d, J=6.8 Hz), 0.90 (6H, d, J=6.8 Hz), 0.95 (3H, d, J=7.3 Hz), 0.97 (3H, d, J=7.3 Hz), 1.85-1.92 (2H, m), 2.03-2.05 (1H, m), 3.37-3.43 (1H, m), 3.55-3.63 (1H, m), 3.83 (1H, d, J=6.8 Hz), 3.88-3.92 (1H, dd, J=6.3, 8.7 Hz), 3.96-3.99 (1H, m), 4.03 (3H, s), 5.26 (1H, d, J=7.8 Hz), 6.18 (1H, d, J=7.8 Hz), 6.94 (1H, m), 6.98 (1H, m), 7.62-7.65 (1H, m). white crystal m.p. 152.3°C
1080	¹H-NMR δ (CDCl₃, ppm): 0.79 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.3 Hz), 0.95 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.85-1.89 (1H, m), 2.02-2.04 (1H, m), 3.39-3.45 (1H, m), 3.51-3.59 (1H, m), 3.79-3.83 (1H, m), 3.93-4.00 (1H, m), 4.03 (3H, s), 5.04 (1H, m), 6.17 (1H, d, J=9.3 Hz), 6.93 (1H, m), 6.97-6.98 (1H, m), 7.62 (1H, m). white crystal m.p. 146.7°C
1081	¹H-NMR δ (CDCl₃, ppm): 0.86 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.24 (3H, t, J=7.3 Hz), 1.82-1.91 (1H, m), 2.09-2.17 (1H, m), 2.46 (3H, s), 3.35-3.48 (1H, m), 3.51-3.65 (1H, m), 3.82 (3H, s), 3.90 (2H, q, J=5.8 Hz), 4.08 (2H, q, J=7.3 Hz), 5.08 (1H, br), 6.15-6.17 (1H, m), 6.46 (1H, br), 7.70 (1H, s). white crystal m.p. 184.8°C

Properties of Compound (84) in Table 2

Compo und No.	Properties
1082	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.21 (3H, d, J=6.8 Hz), 1.23 (3H, d, J=6.8 Hz), 1.82-1.91 (1H, m), 2.10-2.18 (1H, m), 2.47 (3H, s), 3.29-3.35 (1H, m), 3.60-3.64 (1H, m), 3.82 (3H, s), 3.83-3.90 (2H, m), 4.83-4.89 (1H, m), 5.01 (1H, br), 6.13 (1H, br), 6.50 (1H, br), 7.71 (1H, s). white crystal m.p. 194.2°C
1083	¹ H-NMR δ (CDCl ₃ , ppm): 0.86 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.95 (6H, d, J=6.8 Hz), 0.987 (6H, d, J=6.8 Hz), 1.82-1.93 (2H, m), 2.09-2.15 (1H, m), 2.46 (3H, s), 3.35-3.42 (1H, m), 3.55-3.64 (1H, m), 3.82 (3H, s), 3.83-3.84 (2H, m), 3.88-3.91 (2H, m), 5.10-5.11 (1H, m), 6.16-6.18 (1H, m), 6.47 (1H, br), 7.70 (1H, s). white crystal m.p. 231.5°C
1084	¹ H-NMR δ (CDCl ₃ , ppm): 0.89 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.82-1.87 (1H, m), 2.12-2.17 (1H, m), 2.47 (3H, s), 3.29-3.35 (1H, m), 3.70-3.80 (1H, m), 3.82 (3H, s), 3.83-3.85 (2H, m), 4.96 (1H, br), 6.12 (1H, br), 6.59 (1H, br), 7.75 (1H, s). white crystal m.p. 125.3°C
1085	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 1.24 (3H, t, J=6.8 Hz), 1.80-1.89 (1H, m), 2.04-2.18 (1H, m), 3.44 (1H, m), 3.56-3.59 (1H, m), 3.89-3.93 (2H, m), 3.95 (3H, s), 4.09 (2H, q, J=6.8 Hz), 5.12 (1H, d, J=7.8 Hz), 6.30 (1H, d, J=8.3 Hz), 6.63 (1H, m), 7.93 (1H, s). white crystal m.p. 177.6°C

1086	¹ H-NMR δ (CDCl ₃ , ppm): 0.89 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.20 (3H, d, J=5.8 Hz), 1.23 (3H, d, J=6.3 Hz), 1.80-1.88 (1H, m), 2.12-2.20 (1H, m), 3.32 (1H, m), 3.64-6.68 (1H, m), 3.89 (2H, dd, J=5.8, 7.3 Hz), 3.95 (3H, s), 4.82-4.88 (1H, m), 4.99 (1H, d, J=6.3 Hz), 6.18 (1H, m), 6.66 (1H, m), 7.93 (1H, s). white crystal m.p. 205.1°C
1087	¹ H-NMR δ (CDCl ₃ , ppm): 0.89 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.3 Hz), 0.95 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 0.97 (6H, d, J=6.8 Hz), 1.81-1.93 (2H, m), 2.13-2.18 (1H, m), 3.38 (1H, m), 3.60-3.63 (1H, m), 3.82 (2H, d, J=5.8 Hz), 3.88-3.93 (2H, m), 3.95 (3H, s), 5.09 (1H, d, J=6.3 Hz), 6.21 (1H, m), 6.62 (1H, m), 7.92 (1H, s). white crystal m.p. 182.2°C
1088	¹ H-NMR δ (CDCl ₃ , ppm): 0.91 (3H, d, J=6.3 Hz), 0.95 (3H, d, J=3.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.42 (9H, s), 1.81-1.90 (1H, m), 2.04-2.21 (1H, m), 3.21 (1H, m), 3.74-3.77 (1H, m), 3.83-3.88 (1H, m), 3.91 (1H, m), 3.94 (3H, s), 4.96 (1H, m), 6.23 (1H, m), 6.79 (1H, m), 7.97 (1H, s). white crystal m.p. 159.6°C

Properties of Compound (85) in Table 2

Compo und No.	Properties
1089	¹ H-NMR δ (CDCl ₃ , ppm): 0.82 (3H, d, J=6.8 Hz), 0.88 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=7.3 Hz), 1.00 (3H, d, J=7.3 Hz), 1.08 (3H, d, J=6.3 Hz), 1.23-1.26 (3H, m), 1.47-1.50 (1H, m), 1.53-1.65 (2H, m), 1.84-1.92 (1H, m), 2.11-2.18 (1H, m), 2.58 (2H, q, J=6.8 Hz), 3.40-3.48 (1H, m), 3.55-3.58 (1H, m), 3.86-3.95 (2H, m), 4.09-4.14 (2H, m), 4.10 (3H, s), 5.07 (1H, br), 6.10-6.12 (1H, m), 6.37 (1H, s), 6.95-6.99 (1H, m). white crystal: m.p. 158.4°C
1090	¹ H-NMR δ (CDCl ₃ , ppm): 0.89 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.98 (6H, d, J=7.8 Hz), 1.00 (6H, d, J=7.3 Hz), 1.21 (3H, d, J=6.3 Hz), 1.24 (3H, d, J=6.3 Hz), 1.59 (1H, q, J=6.8 Hz), 2.14-2.18 (1H, 2.58 (2H, q, J=6.8 Hz), 3.30-3.39 (1H, m), 3.51-3.58 (1H, m), 3.85-3.92 (2H, m), 4.10 (3H, s), 5.01 (1H, br), 6.10 (1H, br), 6.39 (1H, s), 7.00 (1H, br). white crystal: m.p. 178.4°C
1091	¹ H-NMR δ (CDCl ₃ , ppm): 0.89 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.3 Hz), 0.92 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.51 (2H, q, J=6.3 Hz), 1.58-1.60 (1H, m), 1.87-1.90 (2H, m), 2.14-2.18 (1H, m), 3.30-3.39 (1H, m), 3.51-3.58 (1H, m), 3.84-3.91 (4H, m), 4.10 (3H, s), 5.17 (1H, br), 6.18 (1H, br), 6.37 (1H, s), 7.01 (1H, br). white solid
1092	¹ H-NMR δ (CDCl ₃ , ppm): 0.90 (3H, d, J=6.3 Hz), 0.92 (3H, d, J=7.3 Hz), 0.94 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.3 Hz), 1.44 (9H, s), 1.46-1.53 (2H, m), 1.56-1.63 (1H, m), 1.85 (1H, q, J=6.8 Hz), 2.16 (1H, q, J=6.8 Hz), 2.58 (2H, q, J=6.8 Hz), 3.20 (1H, br), 3.68 (1H, br), 3.81 (1H, t, J=6.8 Hz), 3.89-3.96 (1H, m), 4.10 (3H, s), 4.92 (1H, br), 6.08 (1H, br), 6.43 (1H, s), 7.06 (1H, br). white crystal: m.p. 131.5°C

1093	¹H-NMR δ (CDCl₃, ppm): 0.90 (3H, d, J=6.8 Hz), 0.94 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.25 (3H, t, J=6.8 Hz), 1.85-1.97 (1H, m), 2.12-2.21 (1H, m), 2.51 (3H, s), 3.27-3.40 (1H, m), 3.61-3.69 (1H, m), 3.84-3.96 (2H, m), 4.10-4.15 (2H, m), 5.08 (1H, br), 6.17 (1H, d, J=8.3 Hz), 7.27-7.32 (1H, m). white crystal m.p. 168.9°C
1094	¹H-NMR δ (CDCl₃, ppm): 0.83 (3H, d, J=6.8 Hz), 0.93 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.21 (3H, d, J=6.8 Hz), 1.22 (3H, d, J=6.8 Hz), 1.85-1.97 (1H, m), 2.10-2.21 (1H, m), 2.51 (3H, s), 3.27-3.40 (1H, m), 3.61-3.69 (1H, m), 3.85-4.01 (2H, m), 4.85-4.90 (1H, m), 6.17 (1H, br), 7.28 (1H, s). white crystal m.p. 172.1°C
1095	¹H-NMR δ (CDCl₃, ppm): 0.83 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.94 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=6.8 Hz), 1.86-1.95 (2H, m), 2.13-2.18 (1H, m), 2.51 (3H, s), 3.31-3.45 (1H, m), 3.63-3.70 (1H, m), 3.84-3.94 (3H, m), 5.11 (1H, d, J=7.8 Hz), 6.21 (1H, d, J=8.8 Hz), 7.32 (1H, s). white crystal m.p. 168.5°C

Properties of Compound (86) in Table 2

Compo und No.	Properties
1096	¹ H-NMR δ (CDCl ₃ , ppm): 0.82 (3H, d, J=6.8 Hz), 0.94 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.43 (9H, s), 1.85-1.95 (1H, m), 2.15-2.20 (1H, m), 2.50 (3H, s), 3.15-3.20 (1H, m), 3.80-3.84 (2H, m), 3.92-3.97 (1H, m), 4.92 (1H, br), 6.12-6.14 (1H, m), 7.37 (1H, s). white crystal m.p. 128.5°C
1097	¹ H-NMR δ (CDCl ₃ , ppm): 0.86 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.3 Hz), 1.23 (3H, t, J=6.8 Hz), 1.83-1.91 (1H, m), 2.10-2.15 (1H, m), 2.66 (3H, s), 2.69 (3H, s), 3.41-3.47 (1H, m), 3.53-3.66 (1H, m), 3.89-3.96 (2H, m), 4.10 (2H, q, J=6.8 Hz), 5.13 (1H, d, J=7.8 Hz), 6.27 (1H, d, J=8.3 Hz), 6.73 (1H, m). white crystal m.p. 186.1°C
1098	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.3 Hz), 0.99 (3H, d, J=6.8 Hz), 1.21 (3H, d, J=6.3 Hz), 1.23 (3H, d, J=6.8 Hz), 1.83-1.91 (1H, m), 2.03-2.18 (1H, m), 2.68 (3H, s), 2.71 (3H, s), 3.37-3.40 (1H, m), 3.57-3.61 (1H, m), 3.86-3.96 (2H, m), 4.75-4.97 (1H, m), 5.02 (1H, d, J=7.8 Hz), 6.20 (1H, d, J=8.3 Hz), 6.81 (1H, d, J=8.3 Hz). white crystal m.p. 187.6°C
1099	¹ H-NMR δ (CDCl ₃ , ppm): 0.86 (6H, d, J=6.8 Hz), 0.89 (3H, d, J=6.3 Hz), 0.90 (3H, d, J=6.3 Hz), 0.97 (3H, d, J=6.3 Hz), 0.99 (3H, d, J=6.3 Hz), 1.87-1.90 (2H, m), 2.12-2.14 (1H, m), 2.67 (3H, s), 2.69 (3H, s), 3.38-3.45 (1H, m), 3.54-3.57 (1H, m), 3.83 (2H, d, J=6.8 Hz), 3.88-3.96 (2H, m), 5.13 (1H, d, J=7.3 Hz), 6.23 (1H, d, J=7.3 Hz), 6.75 (1H, m). white crystal m.p. 179.8°C

1101	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.3 Hz), 1.25 (3H, t, J=7.3 Hz), 1.86-1.96 (1H, m), 2.10-2.12 (1H, m), 3.41-3.43 (1H, m), 3.55-3.58 (1H, m), 3.86-3.99 (1H, m), 4.07 (1H, m), 4.12 (2H, q, J=6.8 Hz), 5.15 (1H, m), 6.20 (1H, m), 6.87-6.90 (1H, m), 7.30 (1H, m), 8.31-8.33 (1H, m). white crystal m.p. 172.5°C
1102	¹ H-NMR δ (CDCl ₃ , ppm): 0.79 (3H, d, J=6.8 Hz), 0.85 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.3 Hz), 1.21 (6H, d, J=6.3 Hz), 1.86-1.95 (1H, m), 2.10 (1H, m), 3.38-3.46 (1H, m), 3.52-3.61 (1H, m), 3.87 (1H, dd, J=6.3, 8.7 Hz), 4.04-4.06 (1H, m), 4.85-4.92 (1H, m), 5.07 (1H, m), 6.15-6.18 (1H, m), 6.85-6.90 (1H, m), 7.27 (1H, m), 8.31-8.33 (1H, m). white solid
1103	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.3 Hz), 0.86 (3H, d, J=6.8 Hz), 0.91 (6H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.8 Hz), 1.85-2.03 (2H, m), 2.10 (1H, m), 3.38-3.46 (1H, m), 3.56-3.58 (1H, m), 3.81-3.99 (3H, m), 4.04 (1H, m), 5.08 (1H, m), 6.22-6.26 (1H, m), 6.89-6.99 (1H, m), 7.29 (1H, m), 8.31-8.33 (1H, m). white crystal m.p. 193.2°C

Properties of Compound (87) in Table 2

Compo und No.	Properties
1104	¹ H-NMR δ (CDCl ₃ , ppm): 0.80 (3H, d, J=6.8 Hz), 0.87 (3H, d, J=7.3 Hz), 1.00 (6H, d, J=7.3 Hz), 1.42 (9H, s), 1.86-1.95 (1H, m), 2.04 (1H, m), 3.38-3.46 (1H, m), 3.60 (1H, m), 3.80-3.86 (1H, m), 4.10 (1H, m), 5.00 (1H, m), 6.25 (1H, m), 6.89-6.90 (1H, m), 7.40 (1H, m), 8.30-8.33 (1H, m). white solid
1105	¹ H-NMR δ (CDCl ₃ , ppm): 0.82 (3H, d, J=6.8 Hz), 0.83 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=7.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.24 (3H, t, J=6.8 Hz), 1.83-1.93 (1H, m), 2.03-2.08 (1H, m), 2.46 (3H, s), 3.44-3.49 (1H, m), 3.57-3.64 (1H, m), 3.87-3.92 (1H, m), 3.95-3.97 (1H, m), 4.09-4.15 (2H, m), 5.15 (1H, m), 6.17 (1H, d, J=7.8 Hz), 6.39-6.41 (1H, m), 7.22 (1H, m). white crystal m.p. 182.4°C
1106	¹ H-NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=7.3 Hz), 0.88 (3H, d, J=6.8 Hz), 1.00 (3H, d, J=6.3 Hz), 1.01 (3H, d, J=6.8 Hz), 1.20 (3H, d, J=5.8 Hz), 1.23 (3H, d, J=6.3 Hz), 1.83-1.93 (1H, m), 2.04-2.09 (1H, m), 2.48 (3H, s), 3.46-3.49 (1H, m), 3.55-3.63 (1H, m), 3.86-3.92 (1H, m), 3.96-4.06 (1H, m), 4.84-4.93 (1H, m), 5.13 (1H, d, J=8.3 Hz), 6.23 (1H, d, J=7.8 Hz), 6.39-6.41 (1H, m), 7.23 (1H, m). white crystal m.p. 207.5°C
1107	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.95 (3H, d, J=7.3 Hz), 0.99 (3H, d, J=7.3 Hz), 1.01 (6H, d, J=6.8 Hz), 1.83-1.93 (2H, m), 2.07 (1H, m), 2.46 (3H, s), 3.45-3.50 (1H, m), 3.56-3.67 (1H, m), 3.80-3.86 (2H, m), 3.88-3.95 (1H, m), 3.97-4.04 (1H, m), 5.25 (1H, d, J=7.8 Hz), 6.24-6.26 (1H, m), 6.40-6.41 (1H, m), 7.26 (1H, m). white crystal m.p. 211.4°C

1109	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.24 (3H, t, J=6.8 Hz), 1.30 (3H, t, J=6.8 Hz), 1.86-1.90 (1H, m), 2.05-2.17 (1H, m), 2.70 (3H, s), 3.03-3.09 (2H, m), 3.35-3.50 (1H, m), 3.53-3.56 (1H, m), 3.89-3.92 (2H, m), 4.08-4.13 (2H, m), 5.11-5.12 (1H, m), 6.20-6.22 (1H, m), 6.68 (1H, br). white crystal: m.p. 183.8°C
1110	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.21 (3H, d, J=6.8 Hz), 1.23 (3H, d, J=6.8 Hz), 1.31 (3H, t, J=6.8 Hz), 1.85-1.90 (1H, m), 2.12-2.17 (1H, m), 2.72 (3H, s), 3.07-3.10 (2H, m), 3.35-3.50 (1H, m), 3.53-3.56 (1H, m), 3.86-3.94 (2H, m), 4.85-4.90 (1H, m), 5.00 (1H, br), 6.13-6.15 (1H, m), 6.73 (1H, br). white crystal: m.p. 163.3°C
1111	¹ H-NMR δ (CDCl ₃ , ppm): 0.87 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.94 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 0.99 (6H, d, J=6.8 Hz), 1.30 (3H, t, J=6.8 Hz), 1.84-1.93 (2H, m), 2.12-2.17 (1H, m), 2.70 (3H, s), 3.01-3.09 (2H, m), 3.39-3.46 (1H, m), 3.53-3.56 (1H, m), 3.83-3.96 (4H, m), 5.10 (1H, br), 6.14-6.16 (1H, m), 6.66 (1H, br). white crystal: m.p. 183.6°C

Properties of Compound (88) in Table 2

Compo und No.	Properties
1112	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.96 (3H, d, J=6.8 Hz), 0.99 (3H, d, J=6.8 Hz), 1.30 (3H, t, J=6.8 Hz), 1.43 (9H, s), 1.84-1.90 (1H, m), 2.12-2.17 (1H, m), 2.70 (3H, s), 3.07 (2H, q, J=6.8 Hz), 3.28-3.33 (1H, m), 3.62-3.66 (1H, m), 3.80-3.83 (1H, m), 3.89-3.97 (1H, m), 4.92 (1H, br), 6.12-6.14 (1H, m), 6.76 (1H, br). white crystal: m.p. 197.8°C
1113	¹ H-NMR δ (CDCl ₃ , ppm): 0.82 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.22-1.29 (3H, m), 1.38 (9H, s), 1.85-1.91 (1H, m), 2.05-2.13 (1H, m), 3.49-3.52 (2H, m), 3.89-3.94 (2H, m), 4.09-4.14 (2H, m), 5.12 (1H, br), 6.23 (1H, br), 6.74 (1H, br), 6.77-6.78 (1H, m), 7.32-7.33 (1H, m). pale peach crystal: m.p. 131.3°C
1114	¹ H-NMR δ (CDCl ₃ , ppm): 0.83 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.19-1.34 (6H, m), 1.38 (9H, s), 1.79-1.92 (1H, m), 2.05-2.15 (1H, m), 3.45-3.58 (2H, m), 3.89-3.96 (2H, m), 4.87 (1H, q, J=6.8 Hz), 5.08-5.10 (1H, m), 6.27 (1H, br), 6.77-6.78 (1H, m), 6.83 (1H, br), 7.32-7.34 (1H, m). pale yellow crystal: m.p. 148.0°C
1118	¹ H-NMR δ (CDCl ₃ , ppm): 0.84 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.13 (3H, d, J=6.8 Hz), 1.20 (3H, d, J=6.8 Hz), 1.41 (9H, s), 1.84-1.92 (1H, m), 2.08-2.13 (1H, m), 3.48-3.67 (2H, m), 3.86-3.96 (2H, m), 4.84-4.89 (1H, m), 5.02 (1H, m), 6.15-6.17 (1H, m), 6.72 (1H, m), 7.59 (1/2H, s), 8.22 (1/2H, s). white crystal

1121	^1H-NMR δ (CDCl_3, ppm): 0.83 (3H, d, $J=6.8$ Hz), 0.90 (3H, d, $J=6.3$ Hz), 0.96 (3H, d, $J=6.3$ Hz), 0.98 (3H, d, $J=6.3$ Hz), 1.23 (3H, t, $J=6.8$ Hz), 1.85-1.90 (2H, m), 2.09-2.17 (1H, m), 3.47-3.48 (2H, m), 3.89-3.91 (2H, m), 3.92 (3H, s), 4.10 (2H, q, $J=6.8$ Hz), 5.17 (1H, m), 6.04-6.06 (1H, m), 6.28 (1H, m), 6.58-6.59 (1H, m), 6.59 (1H, m), 6.69 (1H, m). white crystal m.p. 164.9°C
1122	^1H-NMR δ (CDCl_3, ppm): 0.84 (3H, d, $J=6.8$ Hz), 0.90 (3H, d, $J=6.8$ Hz), 0.97 (3H, d, $J=6.8$ Hz), 0.98 (3H, d, $J=6.3$ Hz), 1.20 (6H, d, $J=6.3$ Hz), 1.84-1.90 (1H, m), 2.09-2.14 (1H, m), 3.41-3.49 (2H, m), 3.86-3.91 (2H, m), 3.92 (3H, s), 4.85-4.93 (1H, m), 5.06 (1H, m), 6.04-6.06 (1H, m), 6.22 (1H, m), 6.59-6.60 (1H, m), 6.68 (1H, m). white crystal m.p. 188.3°C
1123	^1H-NMR δ (CDCl_3, ppm): 0.84 (6H, d, $J=6.8$ Hz), 0.90 (6H, d, $J=6.3$ Hz), 0.96 (3H, d, $J=6.3$ Hz), 0.98 (3H, d, $J=6.3$ Hz), 1.85-1.90 (2H, m), 2.09-2.12 (1H, m), 3.48 (2H, m), 3.84 (2H, d, $J=6.8$ Hz), 3.89-3.90 (2H, m), 3.92 (3H, s), 5.17 (1H, m), 6.03-6.06 (1H, m), 6.25 (1H, m), 6.58-6.59 (1H, m), 6.59 (1H, m), 6.69-6.70 (1H, m). white crystal m.p. 179.7°C

Properties of Compound (89) in Table 2

Compo und No.	Properties
1124	¹ H-NMR δ (CDCl ₃ , ppm): 0.85 (3H, d, J=6.8 Hz), 0.90 (3H, d, J=6.8 Hz), 0.97 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.3 Hz), 1.43 (9H, s), 1.84-1.89 (1H, m), 2.10-2.17 (1H, m), 3.35-3.38 (1H, m), 3.55-3.58 (1H, m), 3.81-3.90 (2H, m), 3.92 (3H, s), 4.98 (1H, m), 6.04-6.06 (1H, m), 6.21 (1H, m), 6.61-6.62 (1H, m), 6.68-6.69 (1H, m), 6.69 (1H, m). white crystal m.p. 168.9°C
1126	ESI-MS M ⁺ : 527 white solid
1130	¹ H-NMR δ (CDCl ₃ , ppm): 0.85 (3H, d, J=6.8 Hz), 0.91 (3H, d, J=6.8 Hz), 0.94 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=7.3 Hz), 1.20 (3H, d, J=5.8 Hz), 1.22 (3H, d, J=5.8 Hz), 1.96 (1H, q, J=6.8 Hz), 2.03-2.05 (1H, m), 2.93 (1H, s), 2.17-2.35 (1H, m), 3.63-3.68 (1H, m), 3.80-3.86 (1H, m), 3.98-4.02 (1H, m), 4.81 (1H, br), 4.97-4.99 (1H, m), 6.46 (1/2H, m), 6.95 (1/2H, m). white crystal
1134	¹ H-NMR δ (CDCl ₃ , ppm): 0.88 (3H, d, J=6.8 Hz), 0.92 (3H, d, J=6.8 Hz), 0.98 (3H, d, J=6.8 Hz), 1.01 (3H, d, J=7.3 Hz), 1.93-1.96 (1H, m), 2.05-2.18 (1H, m), 3.38-3.43 (1H, m), 3.54-3.56 (1H, m), 3.90-3.96 (1H, m), 4.02-4.08 (1H, m), 4.87 (1H, br), 5.00-5.10 (1H, m), 6.45-6.48 (1/2H, m), 6.57 (1/2H, br), 7.42-7.45 (2H, m), 7.47-7.52 (3H, m), 7.96-7.97 (1H, m). white crystal
1146	¹ H NMR δ (CDCl ₃ , ppm): 0.81 (3H, d, J=6.3 Hz), 0.84 (3H, d, J=6.3 Hz), 0.92 (3H, d, J=6.3 Hz), 0.98 (3H, d, J=6.8 Hz), 1.20-1.27 (6H, m), 1.81-1.98 (1H, m), 2.01-2.08 (1H, m), 3.75-3.98 (3H, m), 4.73-4.93 (2H, m), 6.18 (1H, br), 6.95 (1H, br), 7.06-7.08 (1H, m), 7.24-7.39 (2H, m), 7.41-7.45 (1H, m), 8.20 (1H, br). white solid

1150	¹ H NMR δ (CDCl ₃ , ppm): 0.80-0.96 (6H, m), 1.18-1.37 (9H, m), 2.05-2.12 (1H, m), 3.47-3.54 (2H, m), 3.93-3.97 (1H, m), 4.28-4.37 (1H, m), 4.86-4.90 (1H, m), 5.11 (1H, br), 6.60 (1H, br), 7.48-7.58 (3H, m), 7.97 (1H, d, J=7.8 Hz), 8.07 (1H, d, J=7.8 Hz). white crystal m.p. 198.4°C
1154	¹ H NMR δ (CDCl ₃ , ppm): 0.80-0.90 (6H, m), 1.19-1.36 (9H, m), 2.09-2.16 (1H, m), 3.49-3.54 (2H, m), 3.92-3.96 (1H, m), 4.28-4.34 (1H, m), 4.86-4.90 (1H, m), 5.09 (1H, d), 6.60 (1H, d), 7.27-7.32 (1H, m), 7.56 (1H, d, J=7.8 Hz), 7.64 (1H, dd, J=2.4, 7.8 Hz), 8.02 (1H, dd, J=4.9, 7.8 Hz). white crystal m.p. 178.4°C

Preparation Examples and Test Examples

Hereinafter, Preparation Examples and Fungicidal activity Test Examples of fungicides according to the invention are illustrated. In the following examples, "parts" refer to "parts by weight" or "% by weight".

Preparation Example 1 (Powder)

2 parts of Compound No. 38 and 98 parts of clay were uniformly mixed and ground to obtain powder containing 2% of the active ingredients.

Preparation Example 2 (Wettable powder)

10 parts of Compound No. 54, 70 parts of kaolin, 18 parts of white carbon and 2 parts of calcium alkylbenzene sulfonate were uniformly mixed and ground to obtain wettable powder in the form of uniform, fine powder containing 10% of the active ingredients.

Preparation Example 3 (Wettable powder)

20 parts of Compound No. 152, 3 parts of calcium alkylbenzene sulfonate, 5 parts of polyoxyethylenenonylphenyl ether and 72 parts of white clay were uniformly mixed and ground to obtain wettable powder in the form of uniform, fine powder containing 20% of the

active ingredients.

Preparation Example 4 (Wettable powder)

50 parts of Compound No. 159, 1 parts of sodium lignin sulfonate, 5 parts of white carbon and 44 parts of diatomaceous earth were mixed and ground to obtain wettable powder containing 50% of the active ingredients.

Preparation Example 5 (Flowable agent)

5 parts of Compound No. 163, 7 parts of propylene glycol, 4 parts of sodium lignin sulfonate, 2 parts of dioctylsulfosuccinate sodium salt, and 82 parts of water were wet ground with sand grinder to obtain flowable agent containing 5% of the active ingredients.

Preparation Example 6 (Flowable agent)

10 parts of Compound No. 167, 7 parts of propylene glycol, 2 parts of sodium lignin sulfonate, 2 parts of dioctylsulfosuccinate sodium salt, and 79 parts of water were wet ground with sand grinder to obtain flowable agent containing 10% of the active ingredients.

Preparation Example 7 (Flowable agent)

25 parts of Compound No. 307, 5 parts of propylene glycol, 5 parts of polyoxyethylene oleic acid ester, 5 parts

of polyoxyethylene diallyl ether sulfate, 0.2 parts of antifoaming agent based silicone, and 59.8 parts of water were wet ground with sand grinder to obtain flowable agent containing 25% of the active ingredients.

Preparation Example 8 (Powder)

2 parts of Compound No. 681 and 98 parts of clay were uniformly mixed and ground to obtain powder containing 2% of the active ingredients.

Preparation Example 10 (Wettable powder)

20 parts of Compound No. 693, 3 parts of calcium alkylbenzene sulfonate, 5 parts of polyoxyethylenenonylphenyl ether and 72 parts of white clay were uniformly mixed and ground to obtain wettable powder in the form of uniform, fine powder containing 20% of the active ingredients.

Preparation Example 11 (Wettable powder)

50 parts of Compound No. 715, 1 parts of sodium lignin sulfonate, 5 parts of white carbon and 44 parts of diatomaceous earth were mixed and ground to obtain wettable powder containing 50% of the active ingredients.

Preparation Example 12 (Flowable agent)

5 parts of Compound No. 686, 7 parts of propylene glycol, 4 parts of sodium lignin sulfonate, 2 parts of dioctylsulfosuccinate sodium salt, and 82 parts of water were wet ground with sand grinder to obtain flowable agent containing 5% of the active ingredients.

Preparation Example 13 (Flowable agent)

10 parts of Compound No. 872, 7 parts of propylene glycol, 2 parts of sodium lignin sulfonate, 2 parts of dioctylsulfosuccinate sodium salt, and 79 parts of water were wet ground with sand grinder to obtain flowable agent containing 10% of the active ingredients.

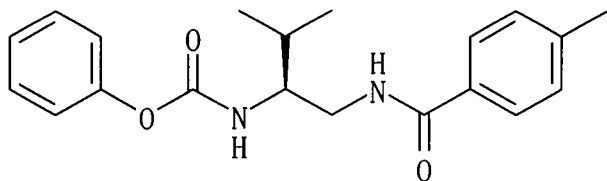
Preparation Example 14 (Flowable agent)

25 parts of Compound No. 846, 5 parts of propylene glycol, 5 parts of polyoxyethylene oleic acid ester, 5 parts of polyoxyethylene diallyl ether sulfate, 0.2 parts of antifoaming agent based silicone, and 59.8 parts of water

were wet ground with sand grinder to obtain flowable agent containing 25% of the active ingredients.

The effect obtained from the fungicides of the invention is specifically illustrated with reference to Test Examples as follows. The agent used for comparison is the compound recited as agricultural and horticultural fungicides in the publication of WO03008372, and it was subjected to experiment as prepared in the same manner as the experimental compounds.

Comparative Compound



Test Example 1: Controlling effect against tomato late blight

A solution of the compound in acetone was diluted with water to 250 ppm, and the solution was sprayed to the tomato seedling (breed: Sekaiichi, one per plastic pot having a diameter of 7.5 cm) at 4-leaf stage in an amount of 10 mL of the compound/pot. After air-drying, the pot was transferred to a moist chamber at 18°C (12-hour light-dark light cycle), and inoculated by spray with a zoosporic suspension of *Phytophthora infestans*. On the 4th day after inoculation the infected area rate for 4 leaves of leaflet was examined. Evaluation was carried out by the following criteria.

The infected area rate for the untreated groups in the examination was not less than 60%.

A: Infected area rate of less than 5%

B: Infected area rate of 5% to less than 50%

C: Infected area rate of not less than 50%

Table 3

Controlling effect against tomato late blight (1)

Compound No.	Effect
Comparative Compound	C

1	B
4	B
6	B
18	B
26	A
38	A
39	B
40	A
42	A
47	B
50	A
51	A
52	A
54	A
55	A
56	A
58	B
59	B
60	B
69	A
75	A
76	A
99	B
100	A

101	B
123	A
124	A
125	A
126	A
127	A
128	A
129	B
135	A
138	A
139	A
140	A
141	A
143	A
147	A
148	B

Controlling effect against tomato late blight (2)

Compound No.	Effect
151	A
152	A
153	A
154	A
157	A
159	A
160	A
161	A
162	A
163	A
164	A
166	A
167	A
168	A
169	A
171	A
172	A
173	A
174	A
175	A
176	A

177	A
178	B
180	B
182	A
183	A
184	A
185	A
186	B
187	A
188	A
191	A
192	A
193	A
194	A
196	A
198	A
200	A
201	A
202	A
203	A

Controlling effect against tomato late blight (3)

Compound No.	Effect
204	A
205	A
206	A
208	A
209	B
210	B
213	A
214	A
218	B
220	B
221	B
222	A
224	A
225	A
226	A
227	B
228	B
229	A
230	B
231	B
232	B

237	B
238	B
239	B
241	A
242	B
243	A
247	B
248	B
257	A
261	B
274	A
276	B
278	A
279	A
281	B
283	A
287	A
291	A
292	A
293	A

Controlling effect against tomato late blight (4)

Compound No.	Effect
294	A
295	A
296	A
297	A
298	B
299	A
300	B
301	B
302	A
303	A
304	A
305	A
306	A
307	A
308	A
309	A
310	A
311	A
312	B
313	A
314	A

315	A
316	B
317	A
328	B
329	B
330	B
332	A
335	A
336	A
337	A
338	A
339	A
340	A
341	A
342	A
343	A
344	A
345	A
346	A
347	A

Controlling effect against tomato late blight (5)

Compound No.	Effect
348	A
349	A
350	A
352	A
388	B
389	B
390	B
392	B
393	B
395	B
396	B
397	B
398	A
400	A
404	B
408	A
411	A
412	A
413	A
414	A
416	A

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420	A
424	B
427	B

Controlling effect against tomato late blight (6)

Compound No.	Effect
431	A
432	A
433	A
435	A
436	A
437	B
444	A
447	A
448	A
449	A
450	A
451	A
452	A
453	A
454	A
455	B
456	A
458	B
462	A
466	B
470	B

478	B
482	B
486	B
490	A
494	A
498	A
506	B
514	A
526	B
538	B
554	A
565	A
566	B
575	B
579	B
583	B
587	A

Controlling effect against tomato late blight (7)

Compound No.	Effect
599	A
601	B
603	B
635	B
636	A
637	A
638	A
639	B
640	A
641	A
642	A
643	A
644	A
646	A
647	A
648	A
649	A
662	A
663	A
664	A
666	A

672	A
675	B
681	A
682	A
683	A
685	A
686	A
687	A
688	A
690	A
691	A
692	A
693	A
694	A
695	A
696	A
697	A
698	A
699	A

Controlling effect against tomato late blight (8)

Compound No.	Effect
700	A
701	A
702	A
705	A
706	A
707	A
708	A
709	A
710	A
711	A
712	A
714	A
715	A
716	A
734	A
762	A
763	A
764	A
768	A
769	A
770	A

771	A
772	A
773	A
774	A
775	A
776	B
777	A
778	A
779	A
780	A
781	A
782	B
783	A
784	B
785	A

Controlling effect against tomato late blight (9)

Compound No.	Effect
786	A
787	A
790	A
791	A
795	A
796	A
797	A
798	A
799	A
800	A
807	A
808	A
809	B
811	A
812	A
813	B
815	A
816	A
817	A
820	A
823	A

824	A
825	A
827	A
828	A
829	A
831	A
832	A
834	A
836	A
837	A
840	B
841	A
842	A
844	A
845	A
846	A
847	A
848	A
855	A
859	B

Controlling effect against tomato late blight (10)

Compound No.	Effect
860	B
866	A
867	A
868	A
870	A
871	A
872	A
873	A
874	A
876	A
880	A
884	A
887	A
888	A
889	A
893	B
897	A
900	A
901	A
904	B
905	A

906	A
908	A
909	A
910	A
912	A
913	A
914	A
915	B
919	B
922	A
927	A
931	A
935	B
936	B
937	B
938	B
939	A
940	A
941	A
943	B

Controlling effect against tomato late blight (11)

Compound No.	Effect
946	B
947	A
949	A
950	A
951	A
952	A
953	A
958	A
961	A
966	A
967	A
968	A
969	A
970	A
971	A
979	A
980	A
981	A
982	A
983	A
984	A

985	A
986	A
987	A
988	A
989	A
991	A
992	A
993	B
995	A
996	A
997	A
998	A
1003	B
1006	B
1007	A
1008	A
1009	A
1011	B
1012	B
1013	B

Controlling effect against tomato late blight (12)

Compound No.	Effect
1015	B
1017	A
1018	B
1019	B
1020	B
1021	B
1022	B
1023	B
1024	A
1025	A
1026	A
1027	A
1028	A
1029	A
1030	A
1031	A
1033	B
1040	B
1041	A
1042	A
1043	A

1048	B
1049	A
1050	B
1051	A
1053	A
1055	B
1064	A
1065	A
1066	A
1067	A
1068	A
1069	A
1070	A
1071	A
1072	A
1073	A
1074	A
1076	A
1078	A
1080	B

Controlling effect against tomato late blight (13)

Compound No.	Effect
1091	B
1092	B
1095	B
1098	B
1102	B
1103	B
1104	B
1106	B
1107	B
1108	B
1109	A
1110	A
1111	A
1112	A
1113	A
1114	A
1118	A
1122	B
1123	A
1124	B
1146	A

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1150	A
1154	A

Test Example 2: Controlling effect against cucumber downy mildew

A solution of the compound in acetone was diluted with water to 250ppm, and the solution was sprayed to the cucumber seedling (breed: Sagamihangbak, two per plastic pot having a diameter of 7.5 cm) at 1-leaf stage in an amount of 10mL of the compound/pot. After air-drying, the pot was transferred to a moist chamber provided in the greenhouse, and inoculated by spray with a zoosporic suspension of *Pseudoperonospora cubensis*. On the 7th day after inoculation the infected area rate for the leaves was examined. Evaluation was carried out by the following criteria.

The infected area rate for untreated groups in the examination was 60 to 80%.

A: the infected area rate of less than 5%

B: the infected area rate of 5% to less than 50%

C: the infected area rate of not less than 50%

Table 4

Controlling effect against cucumber downy mildew (1)

Compound No.	Effect
Comparative Compound	C

1	B
2	B
3	B
4	B
6	B
10	A
22	B
38	A
39	B
40	A
42	A
47	B
50	A
51	A
52	A
54	A
55	A
56	A
69	A
75	B
121	B
123	A
124	A
125	A

126	A
129	B
131	A
135	B
138	A
139	A
140	A
141	B
143	B
145	B
147	B
148	B
151	B
152	A
153	A
154	A

Controlling effect against cucumber downy mildew (2)

Compound No.	Effect
157	A
159	A
160	A
161	A
162	A
163	A
164	A
166	A
167	A
168	A
169	A
171	A
172	A
173	A
174	A
175	B
176	A
177	A
182	A
183	A
184	B

185	A
186	A
187	A
188	A
191	B
192	A
193	A
194	A
196	B
197	B
198	B
200	A
201	A
202	A
203	A
204	A
205	A
206	A
208	A
209	B

Controlling effect against cucumber downy mildew (3)

Compound No.	Effect
210	B
213	A
214	A
218	B
221	B
222	B
224	A
225	A
226	A
227	B
228	B
229	B
230	B
231	B
232	B
237	B
238	B
239	B
241	A
242	B
243	A

247	B
248	B
261	B
274	B
278	A
279	A
281	B
283	A
287	B
291	A
292	A
293	A
294	B
295	A
296	B
297	A
298	B
299	A
300	B
301	B

Controlling effect against cucumber downy mildew (4)

Compound No.	Effect
302	A
303	A
304	A
305	A
306	A
307	A
308	A
309	A
310	A
311	A
312	B
313	A
314	A
315	A
316	A
317	B
328	B
329	B
330	B
332	A
335	A

336	A
337	A
338	A
339	A
340	A
341	A
342	A
343	A
344	B
345	B
346	B
347	B
348	B
349	B
350	B
352	A

Controlling effect against cucumber downy mildew (5)

Compound No.	Effect
388	B
389	B
390	B
392	B
394	B
396	B
397	B
400	A
408	A
412	A
416	A
431	A
432	A
433	A
435	A
436	A
437	A
444	A
447	A
448	A
449	A

450	A
451	A
452	A
453	A
454	A
455	A
456	A
554	A
565	A
567	B
575	B

Controlling effect against cucumber downy mildew (6)

Compound No.	Effect
595	B
599	A
601	A
636	B
637	B
638	B
640	A
641	A
642	A
643	B
644	B
645	B
646	A
647	A
648	A
649	A
662	A
663	A
664	A
666	A
671	A

672	B
675	A
681	A
682	A
683	A
685	A
686	A
687	B
688	A
690	A
691	A
692	A
693	B
694	B
695	A
696	A
697	A
698	A
699	A

Controlling effect against cucumber downy mildew (7)

Compound No.	Effect
700	A
701	A
702	A
705	A
706	A
707	A
708	A
709	A
710	A
711	A
712	A
714	A
715	A
716	A
734	A
762	A
763	A
764	A
768	A
769	A
770	A

771	A
772	A
773	A
774	A
775	A
777	A
778	A
779	A
780	A
781	A
782	B
783	A
784	A
785	A
786	A

Controlling effect against cucumber downy mildew (8)

Compound No.	Effect
790	A
791	A
795	B
796	A
797	B
798	B
799	B
800	B
807	A
808	A
809	A
811	A
812	A
813	A
815	A
816	A
817	A
820	A
823	A
824	B
825	B

827	A
828	A
829	A
831	A
834	A
836	A
837	A
840	B
841	A
842	A
844	A
845	A
846	A
847	B
848	B
851	B
855	B
866	A
867	A

Controlling effect against cucumber downy mildew (9)

Compound No.	Effect
868	A
870	A
871	A
872	A
873	A
874	A
876	B
880	B
884	A
887	A
888	A
889	A
897	A
900	A
901	A
904	B
905	B
906	A
909	B
910	B
912	A

913	A
914	A
915	A
922	A
927	A
931	B
932	B
935	A
936	B
937	B
938	B
939	A
940	A
941	B
946	B
947	A
949	A
950	A
951	A
952	A

Controlling effect against cucumber downy mildew (10)

Compound No.	Effect
953	A
958	A
966	B
967	B
968	B
969	A
970	A
971	A
979	A
980	A
981	A
982	A
983	A
984	A
985	A
986	A
987	B
988	A
989	B
991	A
992	A

993	A
996	A
997	A
998	B
999	B
1000	B
1002	B
1005	B
1008	B
1009	B
1013	B
1015	B
1017	A
1018	B
1019	B
1021	B
1024	A
1025	A
1026	A
1027	A

Controlling effect against cucumber downy mildew (11)

Compound No.	Effect
1028	A
1029	A
1030	A
1031	A
1033	A
1034	A
1040	A
1041	A
1042	A
1043	A
1048	B
1049	A
1050	A
1051	A
1052	B
1053	A
1054	B
1055	B
1056	B
1059	B
1063	B

1064	A
1065	A
1066	A
1067	A
1068	A
1069	A
1070	A
1071	A
1072	A
1073	A
1074	A
1076	B
1078	A
1080	B
1092	B
1095	B
1107	B
1108	B
1110	B

Controlling effect against cucumber downy mildew (12)

Compound No.	Effect
1111	B
1112	B
1113	A
1114	A
1122	B
1123	A
1124	B
1146	A
1150	A
1154	A

Test Example 3: Controlling effect against grape downy mildew

The developed leaf of grape seedling (breed: Cabernet Sauvignon) grown in 1/2000a pot was cut and prepared a leaf disk having a diameter of 32 mm. A solution of the compound in acetone was diluted with water to 250 ppm, and the leaf disk was immersed for 3 hours. The disk was taken from the agent solution, subjected to air-drying, and then inoculated by spray with a zoosporangia suspension of *Plasmopara viticola*. The test disk was incubated at 18°C for 12 hours in a light-dark light cycle. On the 10th day after inoculation the infected area rate for the leaf disk was examined. Evaluation was carried out by the following criteria. The infected area rate for the untreated groups in the examination was 60 to 70%.

A: the infected area rate of less than 5%

B: the infected area rate of 5% to less than 50%

C: the infected area rate of not less than 50%

Table 5

Controlling effect against grape downy mildew (1)

Compound No.	Effect
--------------	--------

Comparative Compound	C
10	B
38	B
40	A
42	B
50	A
51	B
52	B
54	A
55	A
56	A
69	B
123	B
124	B
125	B
126	B
131	B
138	B
139	B
152	A
153	A
154	A
157	A
159	A

160	A
161	A
162	A
163	A
164	A
166	B
167	A
168	A
169	A
171	A
172	A
173	A
174	B
176	A
177	A
182	A
183	A

Controlling effect against grape downy mildew (2)

Compound No.	Effect
185	A
186	B
187	B
188	B
192	A
193	B
194	B
200	B
201	A
202	A
203	A
204	A
205	B
206	A
208	A
213	B
214	B
224	A
225	B
226	B
241	B

243	A
278	B
279	B
283	A
291	A
292	A
293	A
295	A
297	A
299	B
302	A
303	A
304	A
305	A
306	A
307	A
308	A
309	A
310	A
311	A

Controlling effect against grape downy mildew (3)

Compound No.	Effect
313	A
314	A
315	A
316	B
335	A
336	A
337	A
338	A
339	A
340	A
341	A
342	A
343	B
352	A
400	A
408	A
412	B
431	A
432	A
435	A
436	A

437	B
444	A
447	A
448	A
449	A
450	B
451	A
452	A
453	A
454	A
456	A
554	A
565	A

Controlling effect against grape downy mildew (4)

Compound No.	Effect
599	A
601	B
640	A
641	A
642	A
646	B
647	B
648	B
649	B
662	A
663	A
664	A
666	A
671	B
675	B
681	A
682	A
683	A
685	A
686	A
688	A

690	A
691	A
692	A
695	B
696	A
697	A
698	A
699	A
700	A
701	A
702	A
705	A
706	B
707	A
708	A
709	A
710	A
711	A
712	A

Controlling effect against grape downy mildew (5)

Compound No.	Effect
714	A
715	A
716	A
734	A
762	A
763	B
764	A
768	A
769	A
770	A
771	A
772	A
773	A
774	A
775	A
777	A
778	B
779	A
780	A
781	A
782	B

784	B
785	A
786	B
790	A
791	B
796	A
807	B
808	B
809	B
811	A
812	A
813	B
815	A
816	A
817	B

Controlling effect against grape downy mildew (6)

Compound No.	Effect
820	B
823	A
827	A
828	A
829	A
831	A
832	A
834	A
836	A
837	A
841	B
842	B
844	A
845	A
846	A
866	B
867	A
868	A
870	B
871	A
872	A

873	A
874	A
884	A
887	A
888	A
889	A
897	B
900	A
901	A
906	B
912	A
913	A
914	A
915	B
922	B
927	B
935	B
939	A
940	B
947	B

Controlling effect against grape downy mildew (7)

Compound No.	Effect
949	B
950	A
951	A
952	A
953	A
958	B
969	A
970	A
971	A
979	B
980	A
981	A
982	B
983	B
984	A
985	A
986	B
988	A
991	A
992	B
993	B

996	B
997	B
1017	B
1024	B
1025	A
1026	B
1027	B
1028	B
1029	A
1030	B
1031	A
1033	B
1034	B
1040	B
1041	B
1042	B
1043	B
1049	B
1050	B
1051	B

Controlling effect against grape downy mildew (8)

Compound No.	Effect
1053	B
1064	B
1065	B
1066	B
1067	B
1068	A
1069	A
1070	A
1071	A
1072	B
1073	B
1074	A
1078	B
1113	B
1114	B

Test Example 4: Controlling effect against rice blast disease

A solution of the compound in acetone was diluted with water to 250 ppm, and the test compound was sprayed to the rice plant (breed: Tsukimimochi, 50 planted per plastic pot

having a diameter of 6 cm) at 4-leaf stage in an amount of 10 mL of the compound/pot. After air-drying, the pot was transferred to a moist chamber at 25°C (12-hour light-dark light cycle), and inoculated by spray with conidium suspension of *Pyricularia oryzae*. On the 7th to 10th days after inoculation, the number of blotch in all the pots was examined. Evaluation was carried out by the following criteria.

The number of blotch per pot for the untreated groups in the examination was not less than 60.

A: The number of lesions of less than 5

B: The number of lesions of not less than 6 to less than 50

C: The number of lesions of not less than 50

Table 6

Controlling effect against rice blast disease

Compound No.	Effect
Comparative Compound	A
47	A
100	A
113	A
114	A

115	A
147	A
148	A
397	A
405	A
749	A
763	A
832	A
879	A

Test Example 5: Inhibiting effect of extension of hyphae against *Pythium aphanidermatum*

Potato Dextrose Agar (hereinafter referred to as PDA) was heated to 40°C, and then a solution of the compound in acetone was added to 100 ppm. 15 mL of the compound was injected to a Petri dish having a diameter of 9 cm, and cooled to solidify. A mycelial fragment of *Pythium aphanidermatum* preliminarily grown in the PDA, was perforated with cork borer having 6mm of diameter and transplanted to the agent-containing PDA, while allowing the hyphae ascus plane to be directed downward. After incubation of the dark room at 25°C for 24 hours, the diameter of the extended hyphae was measured and the evaluation was carried out by the following criteria.

A: The inhibiting rate compared with the group untreated with the agent of not less than 95%

B: The inhibiting rate compared with the group untreated with the agent of not less than 50 to less than 95%

C: The inhibiting rate compared the group untreated with the agent of less than 50%

Table 7

Inhibiting effect of extension of hyphae against
Pythium aphanidermatum (1)

Compound No.	Effect
Comparative Compound	C
6	B
55	B
129	B
159	B
160	A
163	A
164	B
167	A
169	B
171	B

172	B
176	A
182	A
183	A
186	B
188	B
214	B
279	B
292	A
306	A
307	B
309	B
310	B
311	A
312	A
313	A
314	A
315	A
316	B
317	B
348	B
350	A
408	A
416	A

444	A
452	A
565	B

Inhibiting effect of extension of hyphae against
Pythium aphanidermatum (2)

Compound No.	Effect
646	B
647	A
648	A
649	A
671	A
672	A
675	A
681	A
682	A
683	A
685	A
686	A
687	A
688	A
690	A
691	A
695	A
696	A
697	B
698	B

699	B
700	A
701	A
702	B
705	B
706	B
707	B
708	B
709	B
710	A
711	A
712	A
714	A
715	A
716	A

Inhibiting effect of extension of hyphae against
Pythium aphanidermatum (3)

Compound No.	Effect
762	A
763	B
764	A
768	A
769	A
772	A
774	A
775	A
778	A
779	A
780	A
781	A
782	A
783	A
784	A
785	A
786	A
787	A
790	A
791	A

796	B
797	B
811	B
815	B
816	B
823	A
824	A
825	B
827	A
828	A
829	A
831	A
832	A
834	B
844	A
845	A
846	B
847	B
870	B
871	B

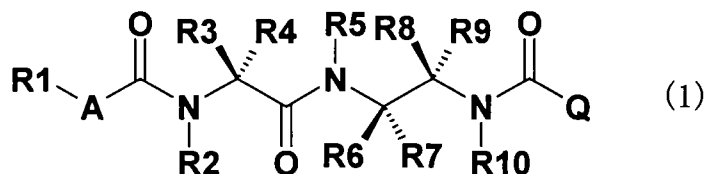
Inhibiting effect of extension of hyphae against
Pythium aphanidermatum (4)

Compound No.	Effect
872	B
874	A
884	B
887	B
888	B
889	B
900	B
901	B
909	B
910	B
953	B
992	A
993	B
1009	B
1025	B
1027	B
1065	A
1066	A
1067	A
1069	A

1070	A
1071	A
1072	A
1073	A
1074	B

CLAIMS

1. A diamine derivative represented by the formula (1):



[wherein

R1 is an alkyl group having 1 to 6 carbon atoms, a cycloalkyl group having 3 to 6 carbon atoms, an alkenyl group having 2 to 6 carbon atoms, a cycloalkenyl group having 3 to 6 carbon atoms, an alkynyl group having 2 to 6 carbon atoms, an aryl group, a heterocycle, an arylalkyl group having 1 to 6 carbon atoms on alkyl moieties, or a heteroarylalkyl group having 1 to 6 carbon atoms on alkyl moieties;

R2 and R5 are each independently a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, a cycloalkyl group having 3 to 6 carbon atoms, an alkenyl group having 2 to 6 carbon atoms, a cycloalkenyl group having 3 to 6 carbon atoms, an alkynyl group having 2 to 6 carbon atoms, an acyl group, an aryl group, a heterocycle, an arylalkyl group having 1 to 6 carbon atoms on alkyl moieties, or a heteroarylalkyl group having 1 to 6 carbon atoms on alkyl moieties;

R3 and R4 are each independently a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, a cycloalkyl group

having 3 to 6 carbon atoms, an alkenyl group having 2 to 6 carbon atoms, a cycloalkenyl group having 3 to 6 carbon atoms, an alkynyl group having 2 to 6 carbon atoms, an aryl group, a heterocycle, an arylalkyl group having 1 to 6 carbon atoms on alkyl moieties, or a heteroarylalkyl group having 1 to 6 carbon atoms on alkyl moieties, or R3 and R4 may be bonded to each other to form a hydrocarbon ring having 3 to 6 carbon atoms;

R6, R7, R8 and R9 are each independently a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, a cycloalkyl group having 3 to 6 carbon atoms, an alkenyl group having 2 to 6 carbon atoms, a cycloalkenyl group having 3 to 6 carbon atoms, or an alkynyl group having 2 to 6 carbon atoms, provided that at least one substituent represents an alkyl group having 1 to 6 carbon atoms, a cycloalkyl group having 3 to 6 carbon atoms, an alkenyl group having 2 to 6 carbon atoms, a cycloalkenyl group having 3 to 6 carbon atoms, or an alkynyl group having 2 to 6 carbon atoms;

R10 is a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, a cycloalkyl group having 3 to 6 carbon atoms, an alkenyl group having 2 to 6 carbon atoms, a cycloalkenyl group having 3 to 6 carbon atoms, an alkynyl group having 2 to 6 carbon atoms, or an acyl group;

A is oxygen atom or sulfur atom; and

Q is an aryl group or a heterocycle].

2. The diamine derivative according to claim 1, wherein at least one of R3 and R4 is an alkyl group having 1 to 6 carbon atoms, a cycloalkyl group having 3 to 6 carbon atoms, an alkenyl group having 2 to 6 carbon atoms, a cycloalkenyl group having 3 to 6 carbon atoms, an alkynyl group having 2 to 6 carbon atoms, an aryl group, heterocycle, an arylalkyl group having 1 to 6 carbon atoms on alkyl moieties, or a heteroarylalkyl group having 1 to 6 carbon atoms on alkyl moieties, or R3 and R4 may be bonded to each other to form a hydrocarbon ring having 3 to 6 carbon atoms.

3. The diamine derivative according to claim 2, wherein R10 is a hydrogen atom.

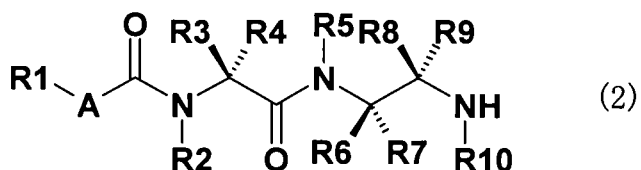
4. The diamine derivative according to claim 3, wherein R2 and R5 are hydrogen atoms.

5. A fungicide comprising the diamine derivative according to any one of claims 1 to 4 as an active ingredient.

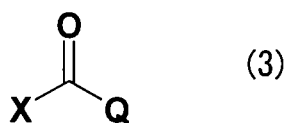
6. An agricultural and horticultural fungicides comprising the diamine derivative according to any one of

claims 1 to 4 as an active ingredient.

7. A process for preparing the diamine derivative according to in any one of claims 1 to 4, comprising reacting a compound represented by the formula (2)

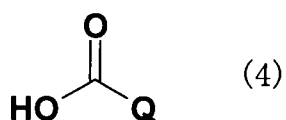


[wherein R1, R2, R3, R4, R5, R6, R7, R8, R9, R10 and A have the same meanings as in claim 1] with a compound represented by the formula (3)



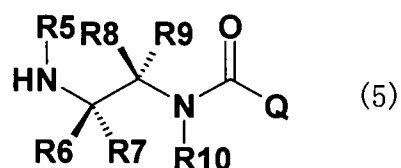
[wherein Q has the same meaning as in claim 1, and X is a leaving group].

8. A process for preparing the diamine derivative as described in any one of claims 1 to 4, comprising reacting the compound represented by the formula (2) with a compound represented by the formula (4)

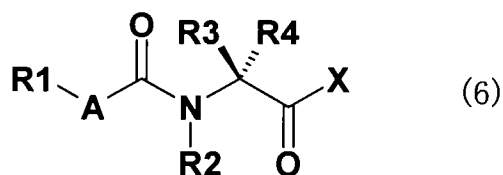


[wherein Q has the same meaning as in claim 1].

9. A process for preparing the diamine derivative as described in any one of claims 1 to 4, comprising reacting a compound represented by the formula (5)

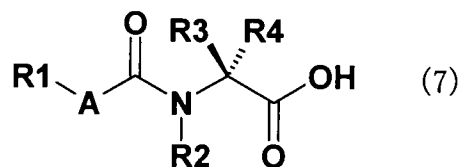


[wherein R5, R6, R7, R8, R9, R10 and Q have the same meanings as in claim 1] with a compound represented by the formula (6)



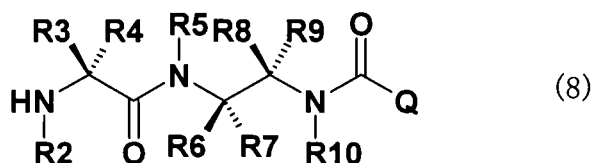
[wherein R1, R2, R3, R4 and A have the same meanings as in claim 1, and X is a leaving group].

10. A process for preparing the diamine derivative as described in any one of claims 1 to 4, comprising reacting the compound represented by the formula (5) with a compound represented by the formula (7)

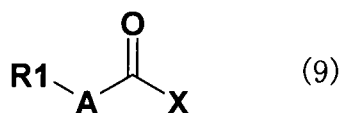


wherein R1, R2, R3, R4 and A have the same meanings as in claim 1.

11. A process for preparing the diamine derivative as described in any one of claims 1 to 4, comprising reacting a compound of formula (8)



[wherein R2, R3, R4, R5, R6, R7, R8, R9, R10 and Q have the same meanings as in claim 1] with a compound represented by the formula (9)



[wherein R1 and A have the same meanings as in claim 1 and X is a leaving group].