

A 4-*tert*-butyl-2-chloro-6-methyl-3-pyridine carboxamide (100 mg, 0.25 mmol) was dissolved in 10 mL of *N,N*-dimethylformamide (DMF) and 10 mL of water. The solution was stirred at 100 °C for 24 h. The mixture was cooled to room temperature and poured into 100 mL of water. The solid was collected by filtration, washed with water, and dried under vacuum to give 100 mg of 4-*tert*-butyl-2-chloro-6-methyl-3-pyridine carboxamide.

Yield: 100% (0.25 mmol)

mp: 100–101 °C

¹H NMR (CDCl₃): δ 2.3 (s, 3H, CH₃), 2.8 (s, 3H, CH₃), 2.9 (s, 3H, CH₃), 3.1 (s, 3H, CH₃), 3.2 (s, 3H, CH₃), 3.3 (s, 3H, CH₃), 3.4 (s, 3H, CH₃), 3.5 (s, 3H, CH₃), 3.6 (s, 3H, CH₃), 3.7 (s, 3H, CH₃), 3.8 (s, 3H, CH₃), 3.9 (s, 3H, CH₃), 4.0 (s, 3H, CH₃), 4.1 (s, 3H, CH₃), 4.2 (s, 3H, CH₃), 4.3 (s, 3H, CH₃), 4.4 (s, 3H, CH₃), 4.5 (s, 3H, CH₃), 4.6 (s, 3H, CH₃), 4.7 (s, 3H, CH₃), 4.8 (s, 3H, CH₃), 4.9 (s, 3H, CH₃), 5.0 (s, 3H, CH₃), 5.1 (s, 3H, CH₃), 5.2 (s, 3H, CH₃), 5.3 (s, 3H, CH₃), 5.4 (s, 3H, CH₃), 5.5 (s, 3H, CH₃), 5.6 (s, 3H, CH₃), 5.7 (s, 3H, CH₃), 5.8 (s, 3H, CH₃), 5.9 (s, 3H, CH₃), 6.0 (s, 3H, CH₃), 6.1 (s, 3H, CH₃), 6.2 (s, 3H, CH₃), 6.3 (s, 3H, CH₃), 6.4 (s, 3H, CH₃), 6.5 (s, 3H, CH₃), 6.6 (s, 3H, CH₃), 6.7 (s, 3H, CH₃), 6.8 (s, 3H, CH₃), 6.9 (s, 3H, CH₃), 7.0 (s, 3H, CH₃), 7.1 (s, 3H, CH₃), 7.2 (s, 3H, CH₃), 7.3 (s, 3H, CH₃), 7.4 (s, 3H, CH₃), 7.5 (s, 3H, CH₃), 7.6 (s, 3H, CH₃), 7.7 (s, 3H, CH₃), 7.8 (s, 3H, CH₃), 7.9 (s, 3H, CH₃), 8.0 (s, 3H, CH₃), 8.1 (s, 3H, CH₃), 8.2 (s, 3H, CH₃), 8.3 (s, 3H, CH₃), 8.4 (s, 3H, CH₃), 8.5 (s, 3H, CH₃), 8.6 (s, 3H, CH₃), 8.7 (s, 3H, CH₃), 8.8 (s, 3H, CH₃), 8.9 (s, 3H, CH₃), 9.0 (s, 3H, CH₃), 9.1 (s, 3H, CH₃), 9.2 (s, 3H, CH₃), 9.3 (s, 3H, CH₃), 9.4 (s, 3H, CH₃), 9.5 (s, 3H, CH₃), 9.6 (s, 3H, CH₃), 9.7 (s, 3H, CH₃), 9.8 (s, 3H, CH₃), 9.9 (s, 3H, CH₃), 10.0 (s, 3H, CH₃).

MS (ESI): m/z 254.1 (M⁺), 255.1 (M⁺), 256.1 (M⁺), 257.1 (M⁺), 258.1 (M⁺), 259.1 (M⁺), 260.1 (M⁺), 261.1 (M⁺), 262.1 (M⁺), 263.1 (M⁺), 264.1 (M⁺), 265.1 (M⁺), 266.1 (M⁺), 267.1 (M⁺), 268.1 (M⁺), 269.1 (M⁺), 270.1 (M⁺), 271.1 (M⁺), 272.1 (M⁺), 273.1 (M⁺), 274.1 (M⁺), 275.1 (M⁺), 276.1 (M⁺), 277.1 (M⁺), 278.1 (M⁺), 279.1 (M⁺), 280.1 (M⁺), 281.1 (M⁺), 282.1 (M⁺), 283.1 (M⁺), 284.1 (M⁺), 285.1 (M⁺), 286.1 (M⁺), 287.1 (M⁺), 288.1 (M⁺), 289.1 (M⁺), 290.1 (M⁺), 291.1 (M⁺), 292.1 (M⁺), 293.1 (M⁺), 294.1 (M⁺), 295.1 (M⁺), 296.1 (M⁺), 297.1 (M⁺), 298.1 (M⁺), 299.1 (M⁺), 300.1 (M⁺), 301.1 (M⁺), 302.1 (M⁺), 303.1 (M⁺), 304.1 (M⁺), 305.1 (M⁺), 306.1 (M⁺), 307.1 (M⁺), 308.1 (M⁺), 309.1 (M⁺), 310.1 (M⁺), 311.1 (M⁺), 312.1 (M⁺), 313.1 (M⁺), 314.1 (M⁺), 315.1 (M⁺), 316.1 (M⁺), 317.1 (M⁺), 318.1 (M⁺), 319.1 (M⁺), 320.1 (M⁺), 321.1 (M⁺), 322.1 (M⁺), 323.1 (M⁺), 324.1 (M⁺), 325.1 (M⁺), 326.1 (M⁺), 327.1 (M⁺), 328.1 (M⁺), 329.1 (M⁺), 330.1 (M⁺), 331.1 (M⁺), 332.1 (M⁺), 333.1 (M⁺), 334.1 (M⁺), 335.1 (M⁺), 336.1 (M⁺), 337.1 (M⁺), 338.1 (M⁺), 339.1 (M⁺), 340.1 (M⁺), 341.1 (M⁺), 342.1 (M⁺), 343.1 (M⁺), 344.1 (M⁺), 345.1 (M⁺), 346.1 (M⁺), 347.1 (M⁺), 348.1 (M⁺), 349.1 (M⁺), 350.1 (M⁺), 351.1 (M⁺), 352.1 (M⁺), 353.1 (M⁺), 354.1 (M⁺), 355.1 (M⁺), 356.1 (M⁺), 357.1 (M⁺), 358.1 (M⁺), 359.1 (M⁺), 360.1 (M⁺), 361.1 (M⁺), 362.1 (M⁺), 363.1 (M⁺), 364.1 (M⁺), 365.1 (M⁺), 366.1 (M⁺), 367.1 (M⁺), 368.1 (M⁺), 369.1 (M⁺), 370.1 (M⁺), 371.1 (M⁺), 372.1 (M⁺), 373.1 (M⁺), 374.1 (M⁺), 375.1 (M⁺), 376.1 (M⁺), 377.1 (M⁺), 378.1 (M⁺), 379.1 (M⁺), 380.1 (M⁺), 381.1 (M⁺), 382.1 (M⁺), 383.1 (M⁺), 384.1 (M⁺), 385.1 (M⁺), 386.1 (M⁺), 387.1 (M⁺), 388.1 (M⁺), 389.1 (M⁺), 390.1 (M⁺), 391.1 (M⁺), 392.1 (M⁺), 393.1 (M⁺), 394.1 (M⁺), 395.1 (M⁺), 396.1 (M⁺), 397.1 (M⁺), 398.1 (M⁺), 399.1 (M⁺), 400.1 (M⁺), 401.1 (M⁺), 402.1 (M⁺), 403.1 (M⁺), 404.1 (M⁺), 405.1 (M⁺), 406.1 (M⁺), 407.1 (M⁺), 408.1 (M⁺), 409.1 (M⁺), 410.1 (M⁺), 411.1 (M⁺), 412.1 (M⁺), 413.1 (M⁺