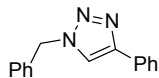


Table of Contents

1. Analytical data	S2
2. Collection of NMR spectra	S7
3. References.....	S18

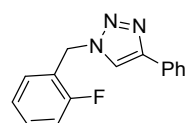
1. Analytical data

1-Benzyl-4-phenyl-1H-1,2,3-triazole, 1:



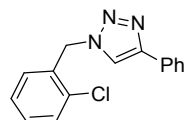
White solid; mp: 125–128 °C (lit.^[S1] mp: 123–125 °C); NMR data is in agreement with the literature reference.^[S1] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 5.61 (s, 2H, CH₂), 7.30–7.38 (m, 3H, Ar-H), 7.39–7.48 (m, 5H, Ar-H), 7.70 (s, 1H, Ar-H), 7.80–7.87 (d, 2H, Ar-H, $J=7.85$ Hz).

1-(2-Fluorobenzyl)-4-phenyl-1H-1,2,3-triazole, 2:



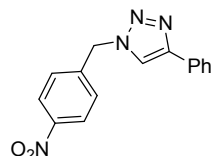
White solid; mp: 88–92 °C; NMR data is in agreement with the literature reference.^[S2] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 5.67 (s, 2H, CH₂), 7.10–7.25 (m, 2H, Ar-H), 7.31–7.50 (m, 5H, Ar-H), 7.80 (s, 1H, Ar-H), 7.81–7.89 (d, 2H, Ar-H, $J=7.65$ Hz).

1-(2-Chlorobenzyl)-4-phenyl-1H-1,2,3-triazole, 3:



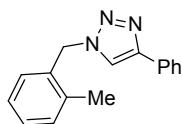
White solid; mp: 75–79 °C (lit. ^[S3] mp: 79–81 °C); NMR data is in agreement with the literature reference.^[S3] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 5.75 (s, 2H, CH₂), 7.25–7.39 (m, 4H, Ar-H), 7.40–7.51 (m, 3H, Ar-H), 7.81 (s, 1H, Ar-H), 7.82–7.89 (d, 2H, Ar-H, $J=7.79$ Hz).

1-(4-Nitrobenzyl)-4-phenyl-1H-1,2,3-triazole, 4:



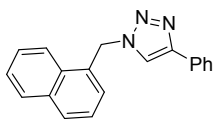
Yellowish solid; mp: 157–160 °C (lit. ^[S1] mp: 158–159 °C; NMR data is in agreement with the literature reference.^[S1] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 5.73 (s, 2H, CH₂), 7.34–7.41 (t, 1H, Ar-H, $J=7.98$ Hz), 7.41–7.52 (m, 4H, Ar-H), 7.79 (s, 1H, Ar-H), 7.81–7.89 (d, 2H, Ar-H, $J=7.59$ Hz), 8.20–8.32 (d, 2H, Ar-H, $J=8.35$ Hz).

1-(2-Methylbenzyl)-4-phenyl-1H-1,2,3-triazole, 5:



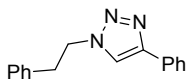
White solid; mp: 93–97 °C (lit. ^[S1] mp: 93–95 °C); NMR data is in agreement with the literature reference.^[S1] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 2.36 (s, 3H, CH₃), 5.62 (s, 2H, CH₂), 7.24–7.31 (m, 3H, Ar-H), 7.31–7.38 (m, 2H, Ar-H), 7.39–7.46 (t, 2H, Ar-H, $J=7.29$ Hz), 7.57 (s, 1H, Ar-H), 7.79–7.86 (d, 2H, Ar-H, $J=7.29$ Hz).

1-(Naphthalen-1-ylmethyl)-4-phenyl-1H-1,2,3-triazole, 6:



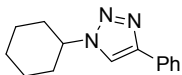
White solid; mp: 142–144 °C (lit. ^[S4] mp: 141–142 °C); NMR data is in agreement with the literature reference.^[S4] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 5.77 (s, 2H, CH₂), 7.31–7.38 (m, 1H, Ar-H), 7.38–7.46 (m, 3H, Ar-H), 7.51–7.60 (m, 2H, Ar-H), 7.72 (s, 1H, Ar-H), 7.77–7.94 (m, 6H, Ar-H).

1-Phenethyl-4-phenyl-1H-1,2,3-triazole, 7:



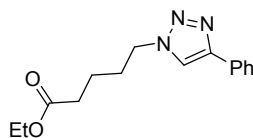
White solid; mp: 141–146 °C (lit. ^[S1] mp: 141–142 °C); NMR data is in agreement with the literature reference.^[S1] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 3.23–3.33 (t, 2H, CH₂, $J=7.11$ Hz), 4.60–4.70 (t, 2H, CH₂, $J=7.11$ Hz), 7.12–7.20 (d, 2H, Ar-H, $J=7.52$ Hz), 7.28–7.38 (m, 4H, Ar-H), 7.39–7.48 (m, 2H, Ar-H), 7.51 (s, 1H, Ar-H), 7.76–7.85 (d, 2H, Ar-H, $J=7.73$ Hz).

1-Cyclohexyl-4-phenyl-1H-1,2,3-triazole, 8:



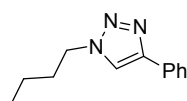
White solid; mp: 105–109 °C (lit. ^[S1] mp: 108–109 °C); NMR data is in agreement with the literature reference.^[S1] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 1.25–1.43 (m, 1H, CH₂), 1.43–1.60 (m, 2H, CH₂), 1.75–1.91 (m, 3H, 2 CH₂), 1.92–2.05 (m, 2H, CH₂), 2.22–2.38 (m, 2H, CH₂), 4.46–4.61 (m, 1H, CH), 7.32–7.40 (m, 1H, Ar-H), 7.40–7.50 (m, 2H, Ar-H), 7.79 (s, 1H, Ar-H), 7.82–7.91 (d, 2H, Ar-H, $J=7.15$ Hz).

Ethyl 5-(4-phenyl-1H-1,2,3-triazol-1-yl)pentanoate, 9:



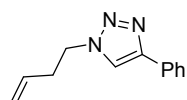
White solid; mp: 53–55 °C (lit. ^[S5] mp: 50–53 °C); NMR data is in agreement with the literature reference.^[S5] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 1.16–1.26 (t, 3H, CH₃, J =7.18 Hz), 1.57–1.74 (m, 2H, CH₂), 1.88–2.04 (m, 2H, CH₂), 2.26–2.37 (t, 2H, CH₂, J =7.43 Hz), 4.05–4.14 (q, 2H, CH₂, J =7.08 Hz), 4.32–4.41 (t, 2H, CH₂, J =7.32 Hz), 7.28–7.34 (m, 1H, Ar-H), 7.35–7.43 (m, 2H, Ar-H), 7.74–7.85 (m, 3H, Ar-H).

1-Butyl-4-phenyl-1H-1,2,3-triazole, 10:



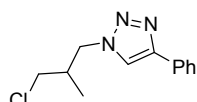
White solid; mp: 47–50 °C (lit. ^[S6] mp: 46–47 °C); NMR data is in agreement with the literature reference.^[S6] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 0.93–1.55 (t, 3H, CH₃, J =7.36 Hz), 1.36–1.49 (m, 2H, CH₂), 1.90–2.02 (m, 2H, CH₂), 4.38–4.45 (t, 2H, CH₂, J =7.33 Hz), 7.31–7.39 (m, 1H, Ar-H), 7.41–7.49 (m, 2H, Ar-H), 7.78 (s, 1H, Ar-H), 7.82–7.90 (d, 2H, Ar-H, J =7.51 Hz).

1-(But-3-en-1-yl)-4-phenyl-1H-1,2,3-triazole, 11:



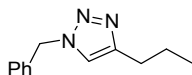
Brownish solid, mp: 42–44 °C; NMR data is in agreement with the literature reference.^[S7] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 2.67–2.78 (m, 2H, CH₂), 4.45–4.54 (t, 2H, CH₂, J =7.19 Hz), 5.08–5.20 (d, 2H, CH₂, J =13.10 Hz), 5.75–5.90 (m, 1H, CH), 7.32–7.40 (m, 1H, Ar-H), 7.41–7.49 (m, 2H, Ar-H), 7.78 (s, 1H, Ar-H), 7.81–7.89 (d, 2H, Ar-H, J =7.42 Hz).

1-(3-Chloro-2-methylpropyl)-4-phenyl-1H-1,2,3-triazole, 12:



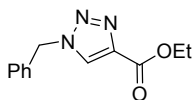
White solid; mp: 50–53 °C (lit. ^[S5] mp: 50–51 °C); NMR data is in agreement with the literature reference.^[S5] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 1.08–1.15 (d, 3H, CH₃, J =6.96 Hz), 2.51–2.65 (m, 1H, CH), 3.41–3.52 (d, 2H, CH₂, J =5.43 Hz), 4.30–4.53 (m, 2H, CH₂), 7.31–7.39 (m, 1H, Ar-H), 7.39–7.48 (m, 2H, Ar-H), 7.79–7.90 (m, 3H, Ar-H).

1-Benzyl-4-propyl-1H-1,2,3-triazole, 13:



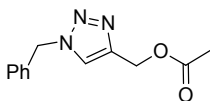
Brownish oil; NMR data is in agreement with the literature reference.^[S8] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 0.94–1.02 (t, 3H, CH₃, $J=7.29$ Hz), 1.63–1.77 (m, 2H, CH₂), 2.64–2.75 (t, 2H, CH₂, $J=7.48$ Hz), 5.54 (s, 2H, CH₂), 7.24–7.31 (m, 2H, Ar-H), 7.33–7.45 (m, 4H, Ar-H).

Ethyl 1-benzyl-1H-1,2,3-triazole-4-carboxylate, 14:



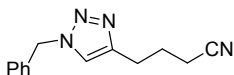
Yellowish solid; mp: 83–85 °C (lit. ^[S1] mp: 82–83 °C); NMR data is in agreement with the literature reference.^[S1] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 1.32–1.45 (t, 3H, CH₃, $J=7.22$ Hz), 4.33–4.47 (q, 2H, CH₂, $J=7.09$ Hz), 5.59 (s, 2H, CH₂), 7.23–7.34 (m, 2H, Ar-H), 7.34–7.47 (m, 3H, Ar-H), 8.01 (s, 1H, Ar-H).

(1-Benzyl-1H-1,2,3-triazol-4-yl)methyl acetate, 15:



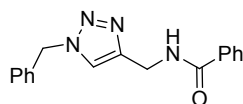
Yellowish solid; mp: 53–55 °C (lit. ^[S5] mp: 55–56 °C); NMR data is in agreement with the literature reference.^[S5] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 2.06 (s, 3H, CH₃), 5.19 (s, 2H, CH₂), 5.52 (s, 2H, CH₂), 7.25–7.32 (m, 2H, Ar-H), 7.34–7.42 (m, 3H, Ar-H), 7.56 (s, 1H, Ar-H).

4-(1-Benzyl-1H-1,2,3-triazol-4-yl)butanenitrile, 16:



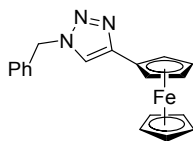
White solid; mp: 65–69 °C (lit. ^[S5] mp: 64–66 °C); NMR data is in agreement with the literature reference.^[S5] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 2.03–2.15 (m, 2H, CH₂), 2.40–2.48 (t, 2H, CH₂, $J=7.06$ Hz), 2.82–2.92 (t, 2H, CH₂, $J=7.30$ Hz), 5.56 (s, 2H, CH₂), 7.25–7.34 (m, 3H, Ar-H), 7.36–7.44 (m, 3H, Ar-H).

N-((1-benzyl-1H-1,2,3-triazol-4-yl)methyl)benzamide, 17:



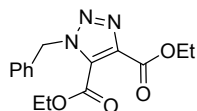
White solid; mp: 126–128 °C; NMR data is in agreement with the literature reference.^[S9] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 4.67–4.76 (d, 2H, CH₂, J =5.60 Hz), 5.54 (s, 2H, CH₂), 6.88 (m, 1H, NH), 7.29–7.34 (m, 2H, Ar-H), 7.36–7.48 (m, 5H, Ar-H), 7.49–7.57 (m, 2H, Ar-H), 7.76–7.83 (m, 2H, Ar-H).

1-Benzyl-4-ferrocenyl-1H-1,2,3-triazole, 18:



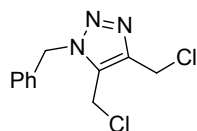
Golden yellow solid; mp: 145–149 °C (lit. ^[S10] mp: 145–147 °C); NMR data is in agreement with the literature reference.^[S10] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 4.09 (s, 5H, Ar-H), 4.29–4.33 (m, 2H, Ar-H), 4.70–4.75 (m, 2H, Ar-H), 5.59 (s, 2H, CH₂), 7.30–7.34 (m, 2H, Ar-H), 7.37–7.46 (m, 4H, Ar-H).

Diethyl 1-benzyl-1H-1,2,3-triazole-4,5-dicarboxylate, 19:



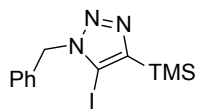
Colorless oil; NMR data is in agreement with the literature reference.^[S11] ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 1.28–1.34 (t, 3H, CH₃, J =7.13 Hz), 1.40–1.46 (t, 3H, CH₃, J =7.13 Hz), 4.32–4.39 (q, 2H, CH₂, J =7.19 Hz), 4.42–4.49 (q, 2H, CH₂, J =7.19 Hz), 5.83 (s, 2H, CH₂), 7.28–7.32 (m, 3H, Ar-H), 7.34–7.39 (m, 2H, Ar-H).

1-Benzyl-4,5-bis(chloromethyl)-1H-1,2,3-triazole, 20:



Yellowish oil; ¹H NMR (400.1 MHz, CDCl₃) δ_{H} : 4.53 (s, 2H, CH₂), 4.75 (s, 2H, CH₂), 5.67 (s, 2H, CH₂), 7.25–7.32 (m, 2H, Ar-H), 7.35–7.45 (m, 3H, Ar-H); ¹³C NMR (100.6 MHz, CDCl₃) δ_{C} : 31.5, 35.7, 53.3, 127.9, 129.3, 129.7, 131.6, 134.2, 143.8; elemental analysis calcd (%) for C₁₁H₁₁Cl₂N₃: C 51.58, H 4.33, N 16.41; found: C 51.67; H 4.31, N 16.34.

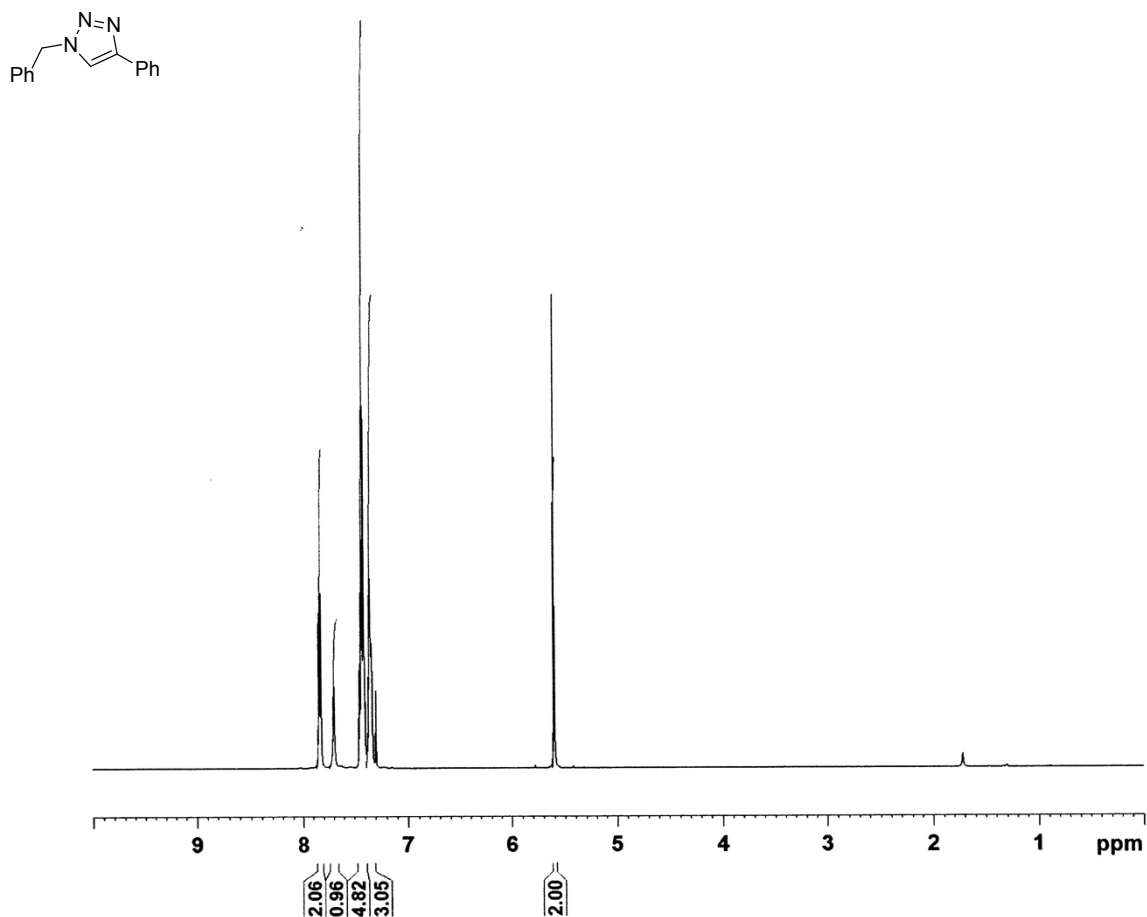
1-Benzyl-5-iodo-4-(trimethylsilyl)-1H-1,2,3-triazole, 21:



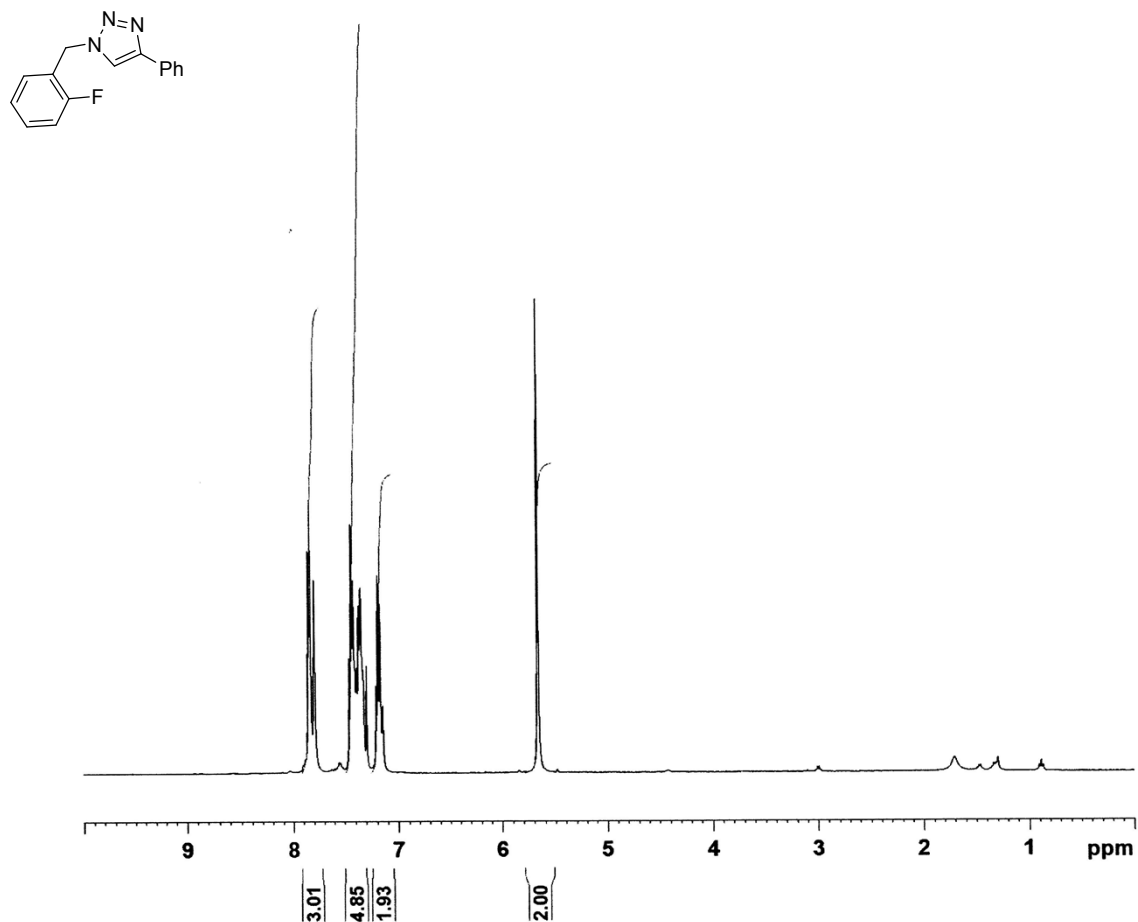
White solid; mp: 90–93 °C (lit. ^[S12] mp: 94–96 °C); NMR data is in agreement with the literature reference.^[S12] ¹H NMR (400.1 MHz, CDCl₃) δ _H: 0.46 (s, 9H, TMS), 5.66 (s, 2H, CH₂), 7.30–7.41 (m, 5H, Ar-H).

2. Collection of NMR spectra

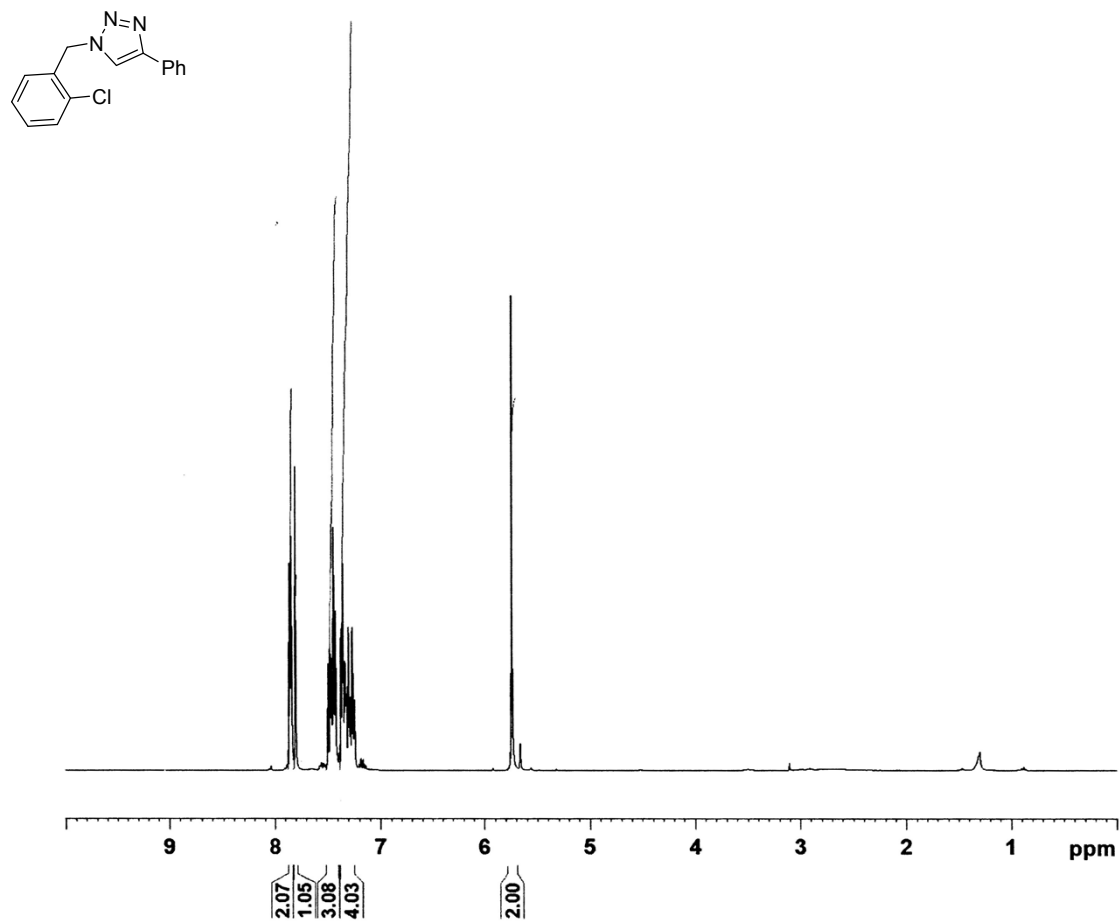
1-Benzyl-4-phenyl-1H-1,2,3-triazole, 1, ¹H NMR in CDCl₃:



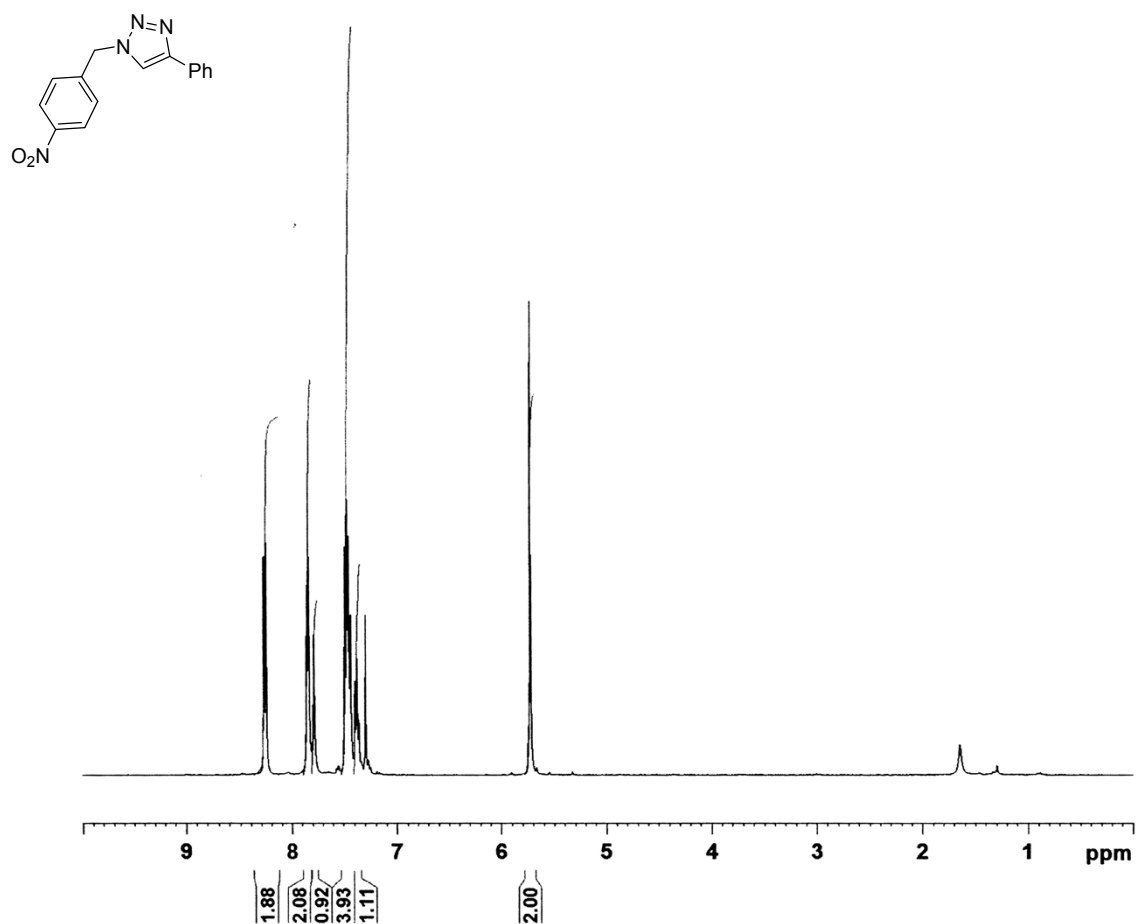
1-(2-Fluorobenzyl)-4-phenyl-1H-1,2,3-triazole, 2, ^1H NMR in CDCl_3 :



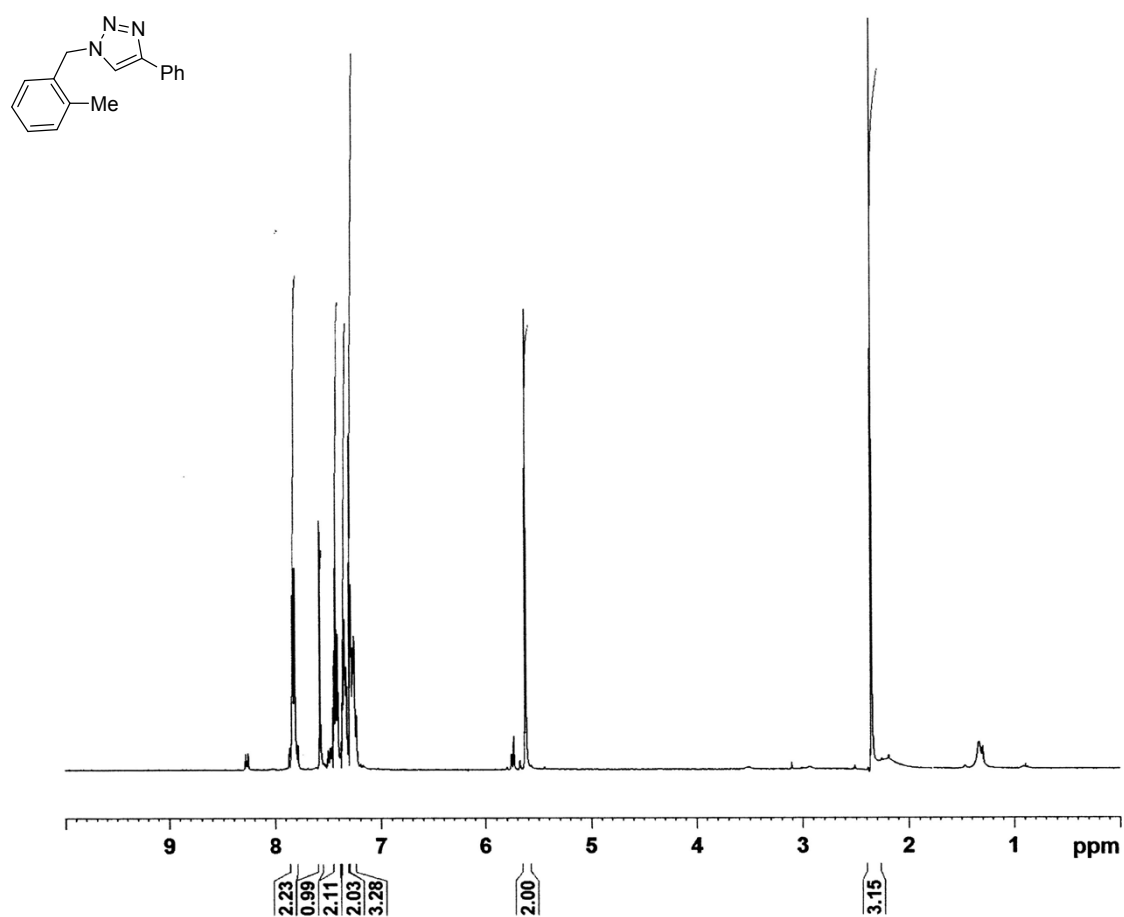
1-(2-Chlorobenzyl)-4-phenyl-1H-1,2,3-triazole, 3, ^1H NMR in CDCl_3 :



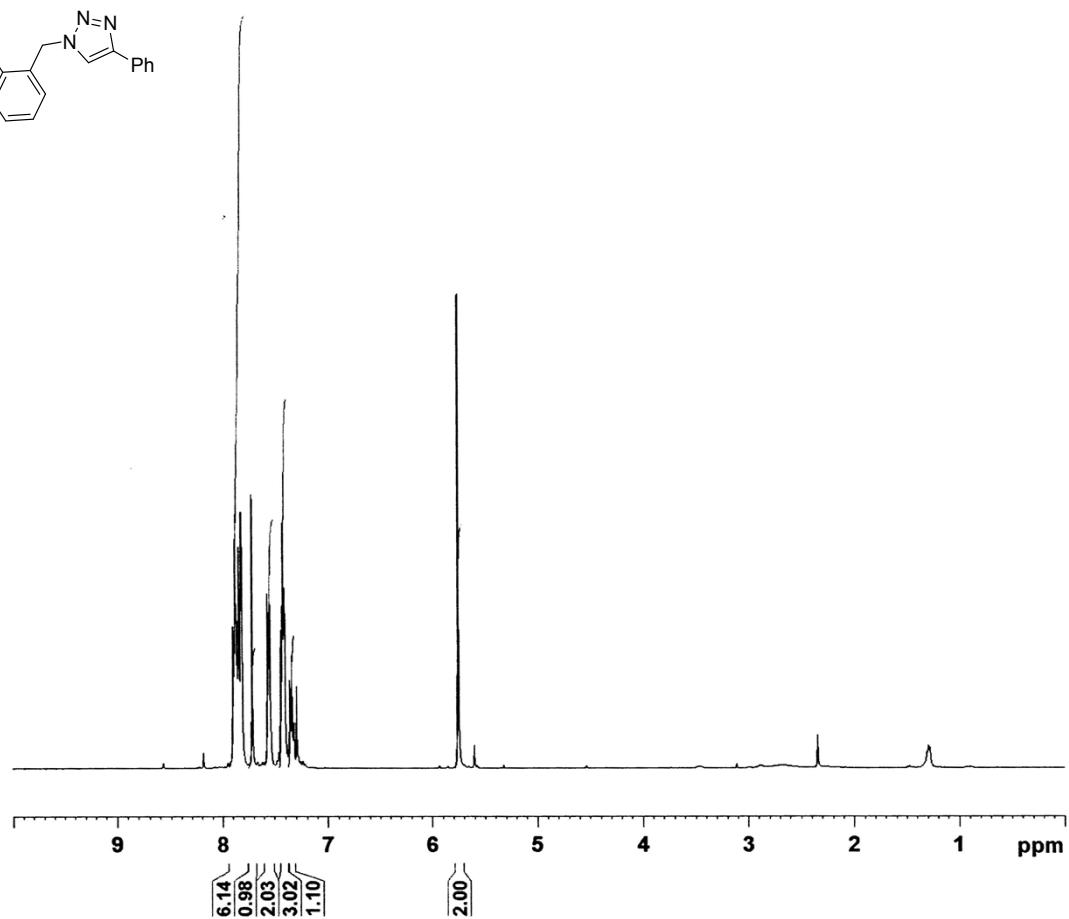
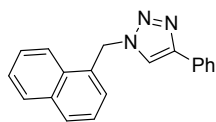
1-(4-Nitrobenzyl)-4-phenyl-1H-1,2,3-triazole, 4, ^1H NMR in CDCl_3 :



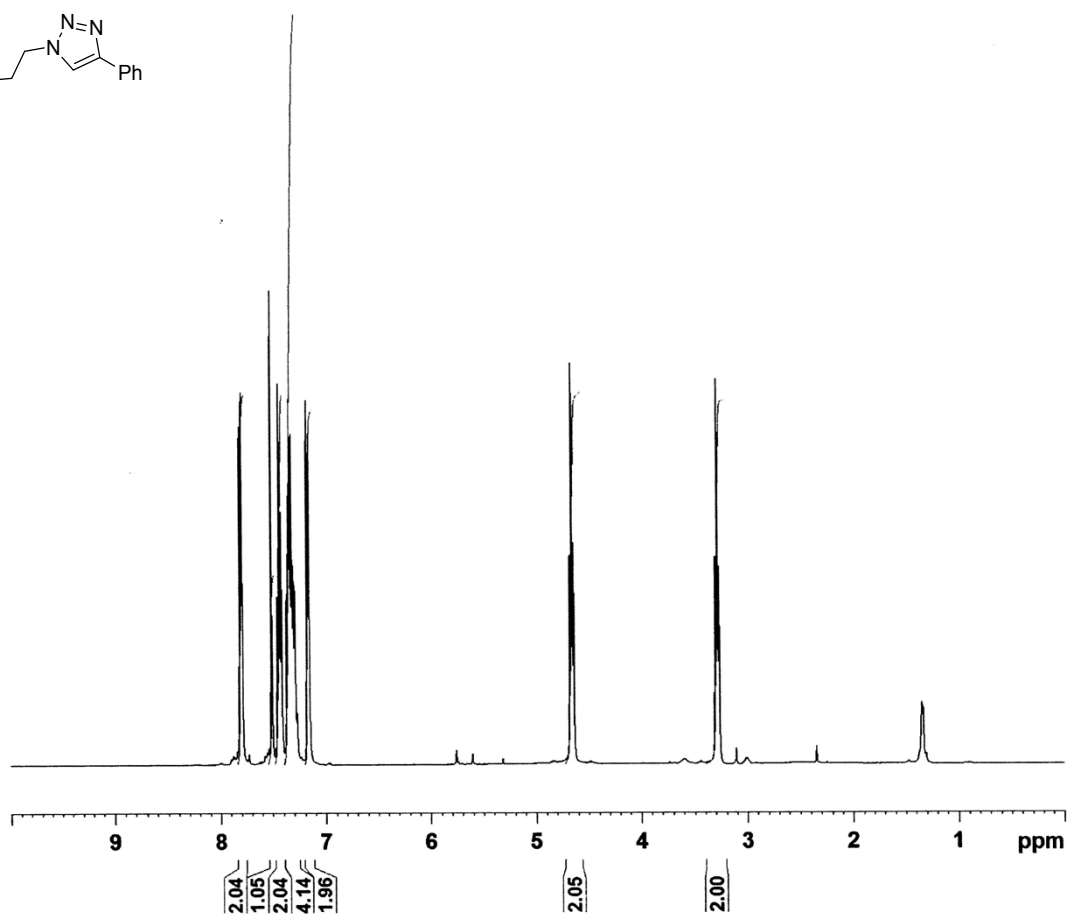
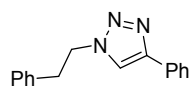
1-(2-Methylbenzyl)-4-phenyl-1H-1,2,3-triazole, 5, ^1H NMR in CDCl_3 :



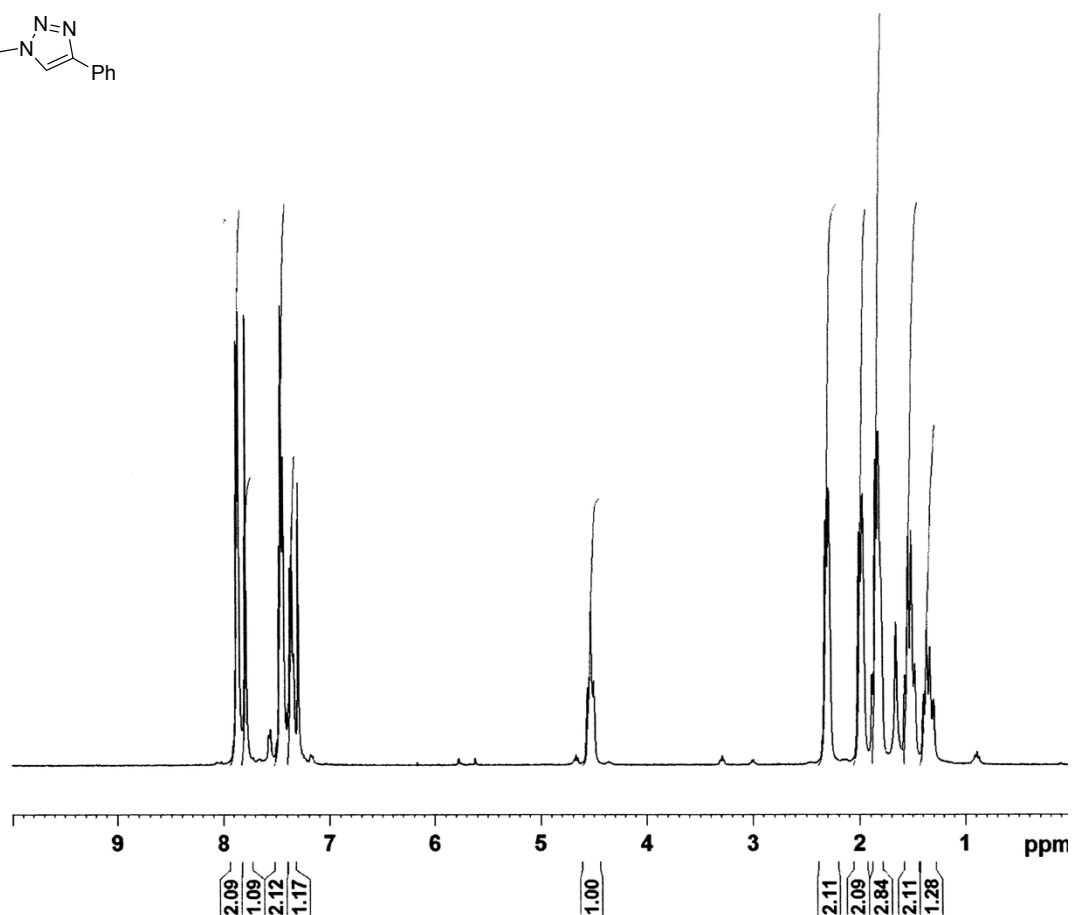
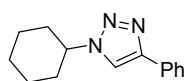
1-(Naphthalen-1-ylmethyl)-4-phenyl-1H-1,2,3-triazole, 6, ^1H NMR in CDCl_3 :



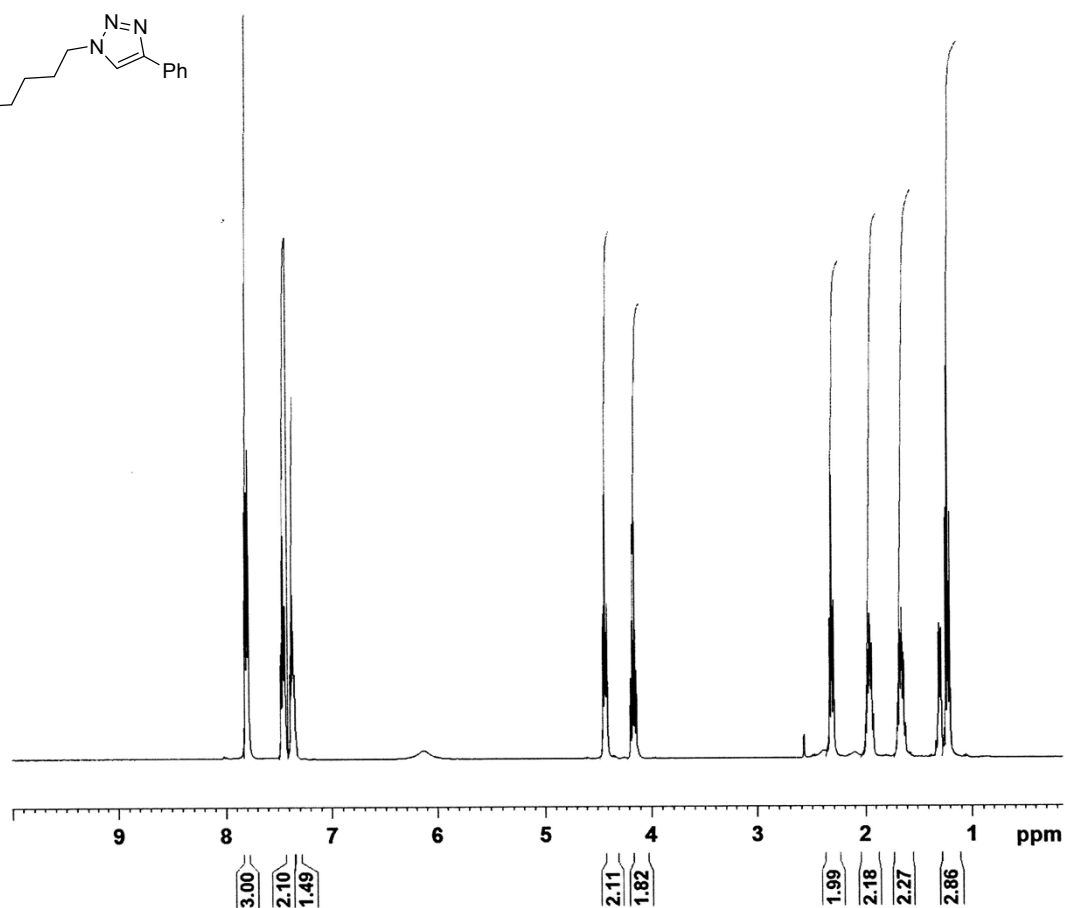
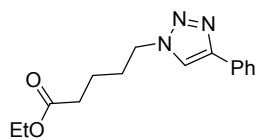
1-Phenethyl-4-phenyl-1H-1,2,3-triazole, 7, ^1H NMR in CDCl_3 :



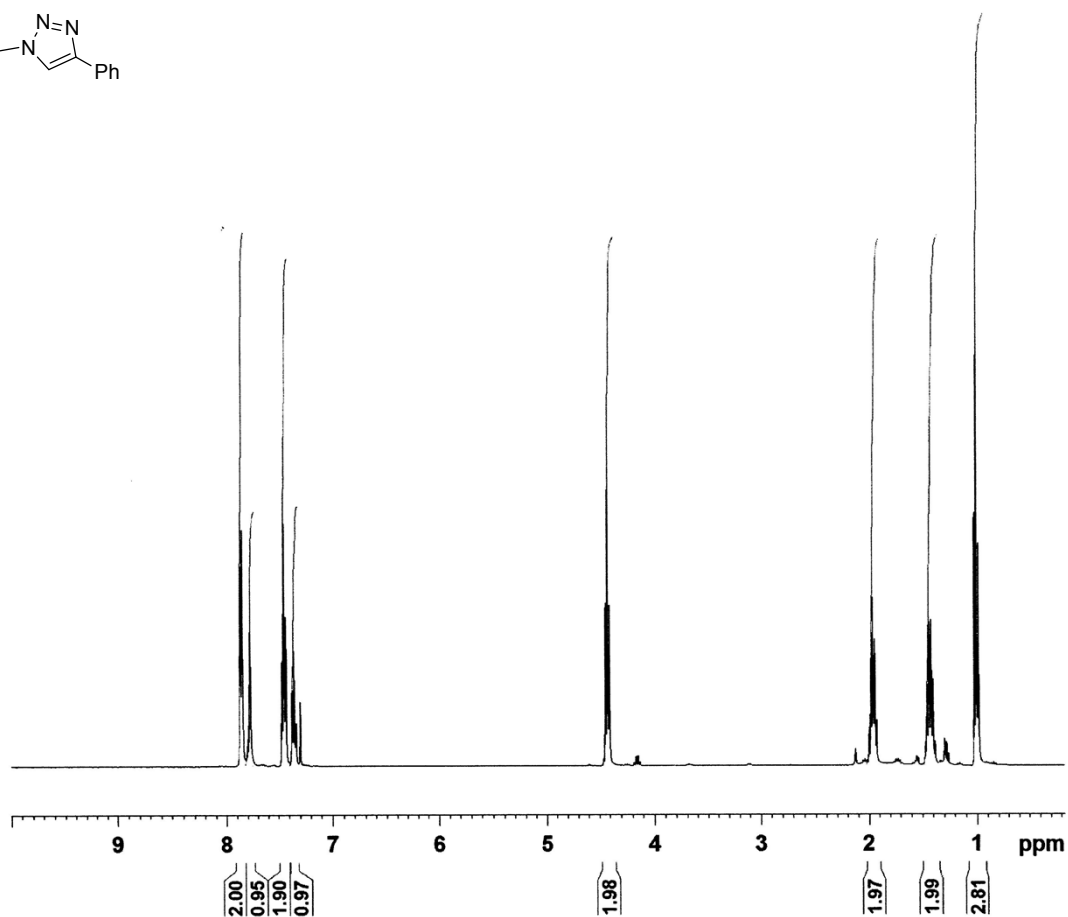
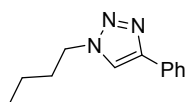
1-Cyclohexyl-4-phenyl-1H-1,2,3-triazole, **8**, ^1H NMR in CDCl_3 :



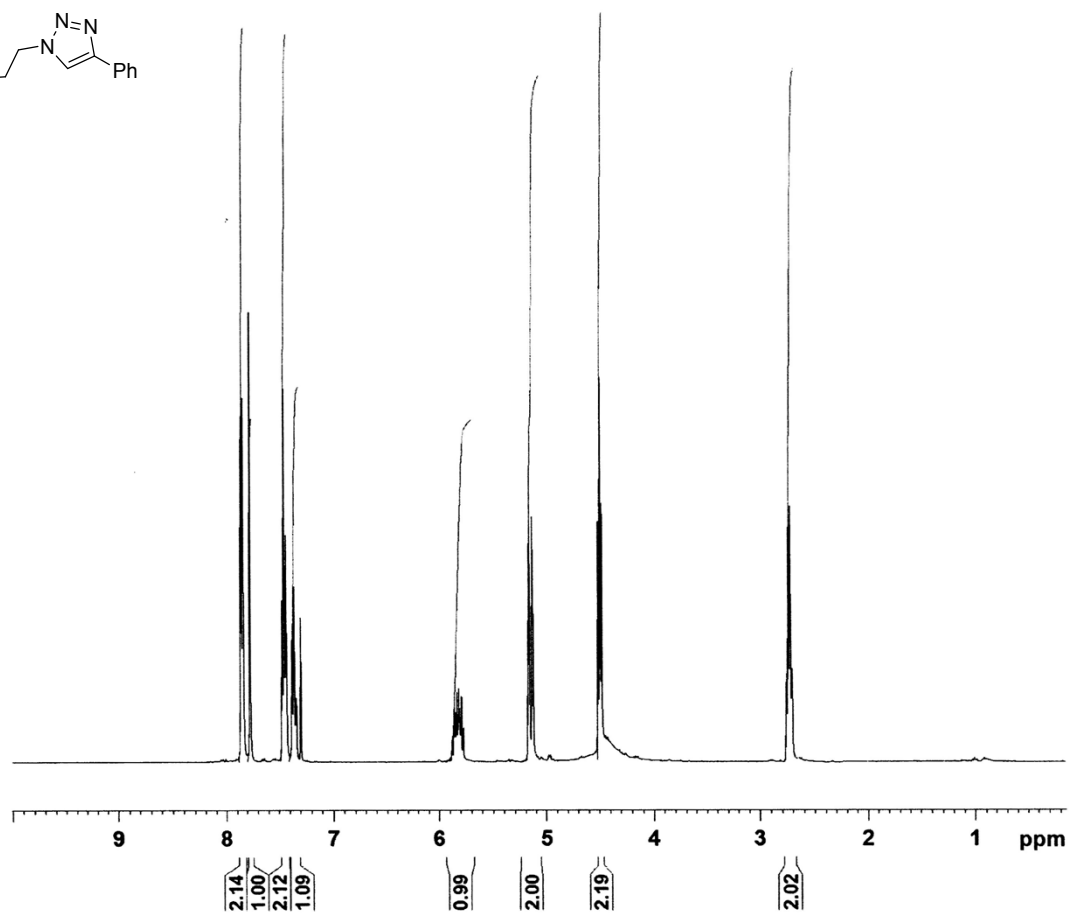
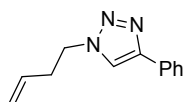
Ethyl 5-(4-phenyl-1H-1,2,3-triazol-1-yl)pentanoate, **9**, ^1H NMR in CDCl_3 :



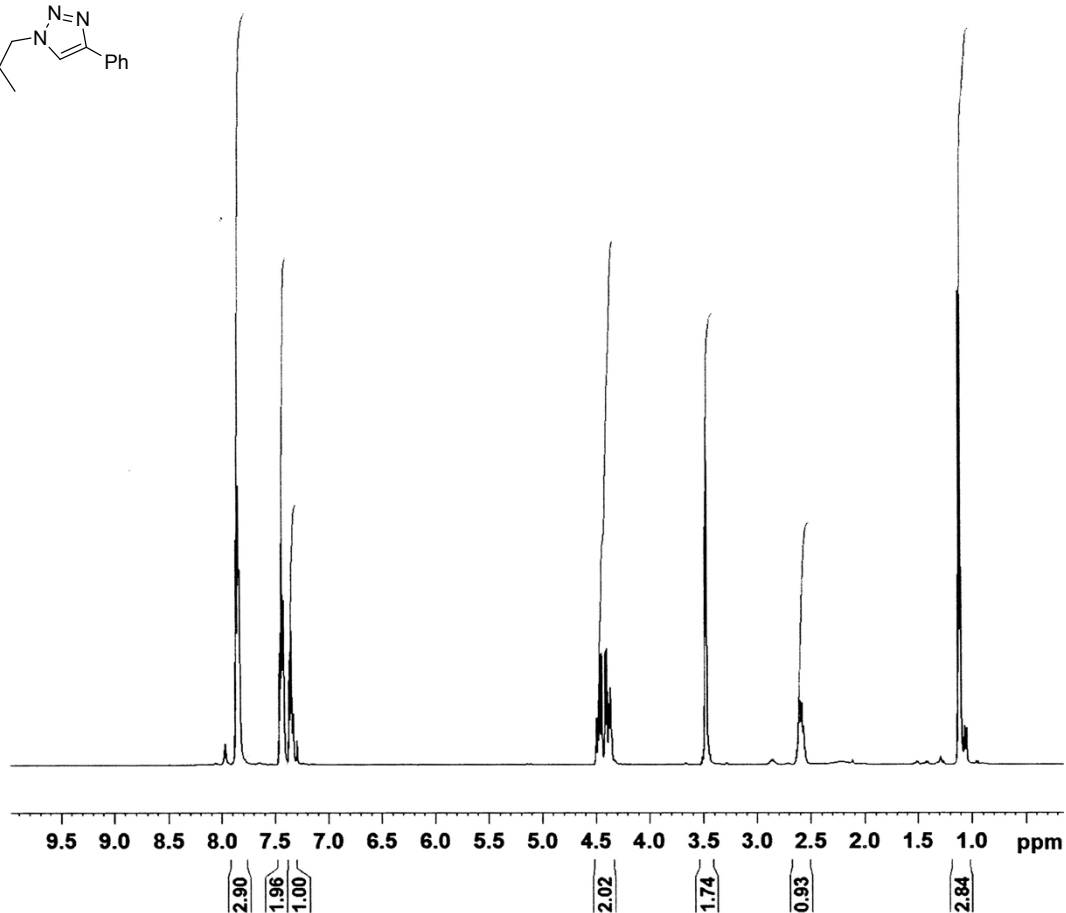
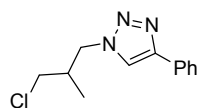
1-Butyl-4-phenyl-1H-1,2,3-triazole, 10, ^1H NMR in CDCl_3 :



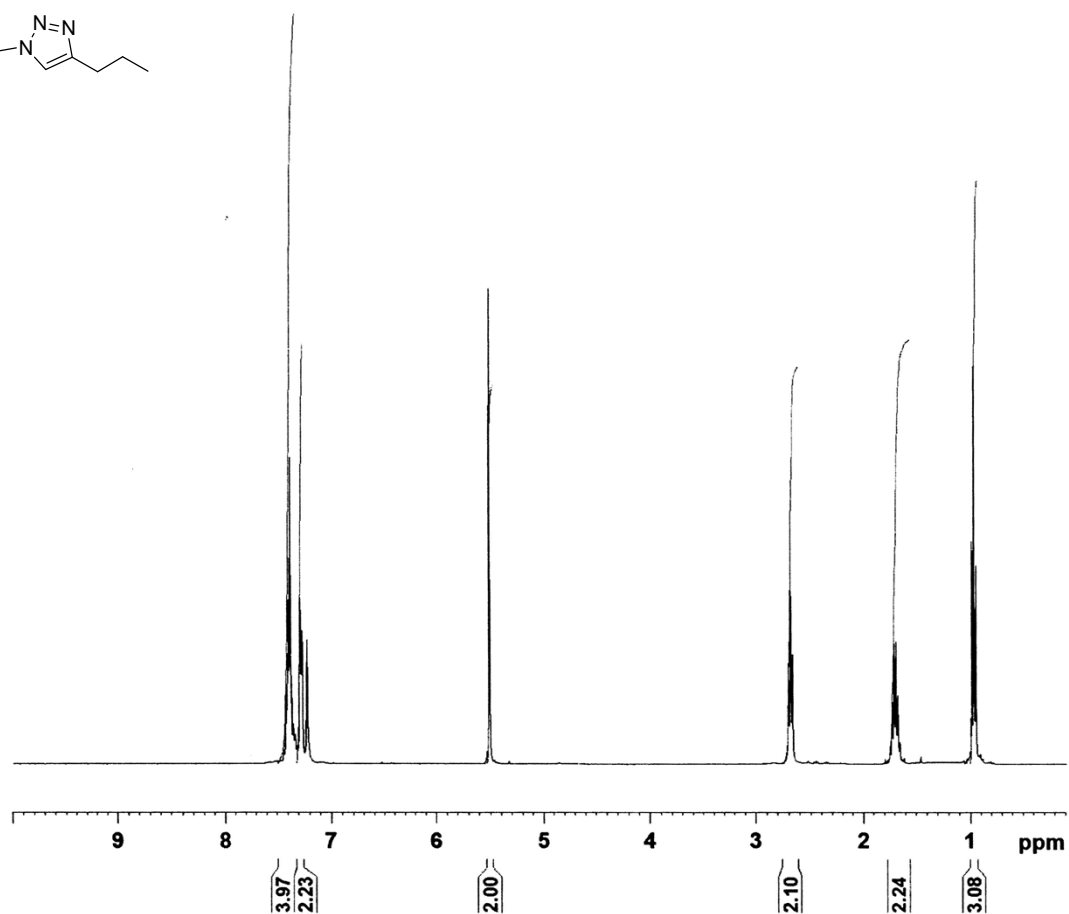
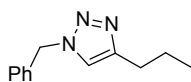
1-(But-3-en-1-yl)-4-phenyl-1H-1,2,3-triazole, 11, ^1H NMR in CDCl_3 :



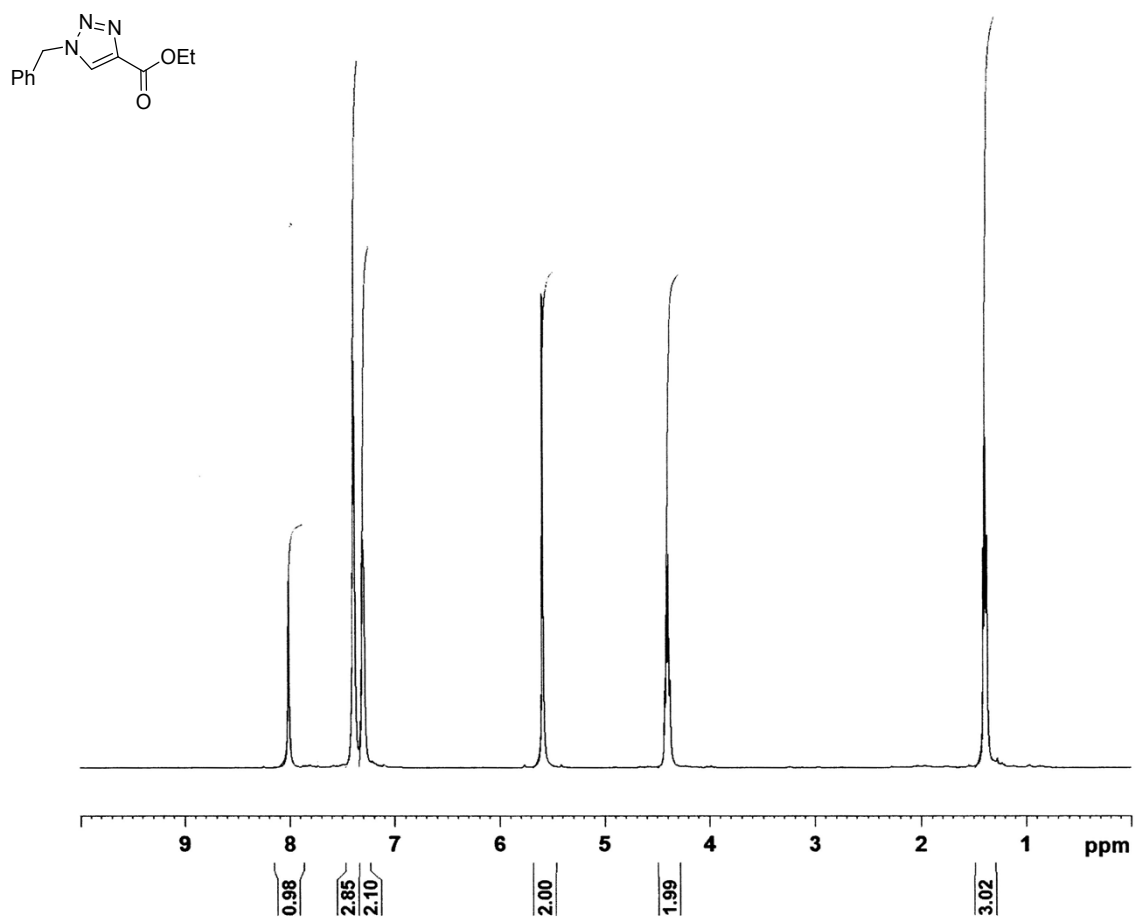
1-(3-Chloro-2-methylpropyl)-4-phenyl-1H-1,2,3-triazole, 12, ^1H NMR in CDCl_3 :



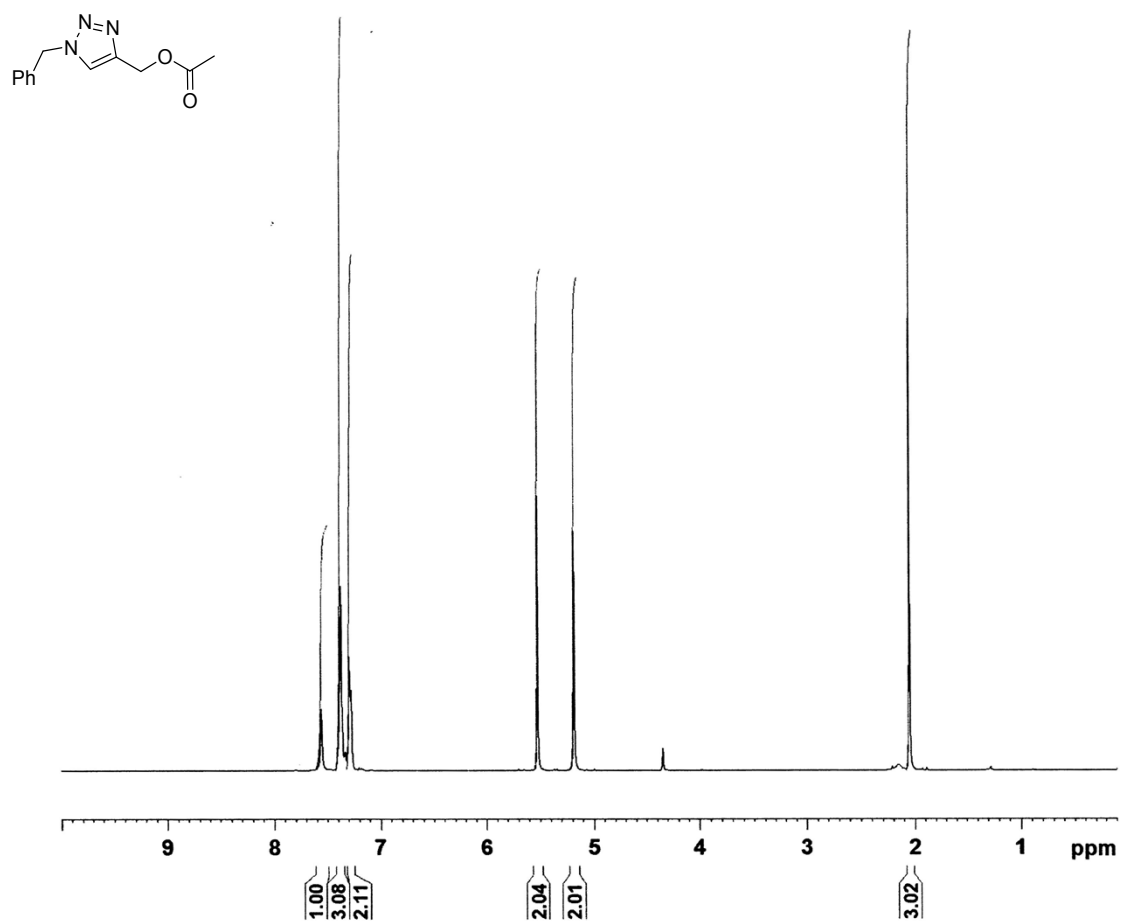
1-Benzyl-4-propyl-1H-1,2,3-triazole, 13, ^1H NMR in CDCl_3 :



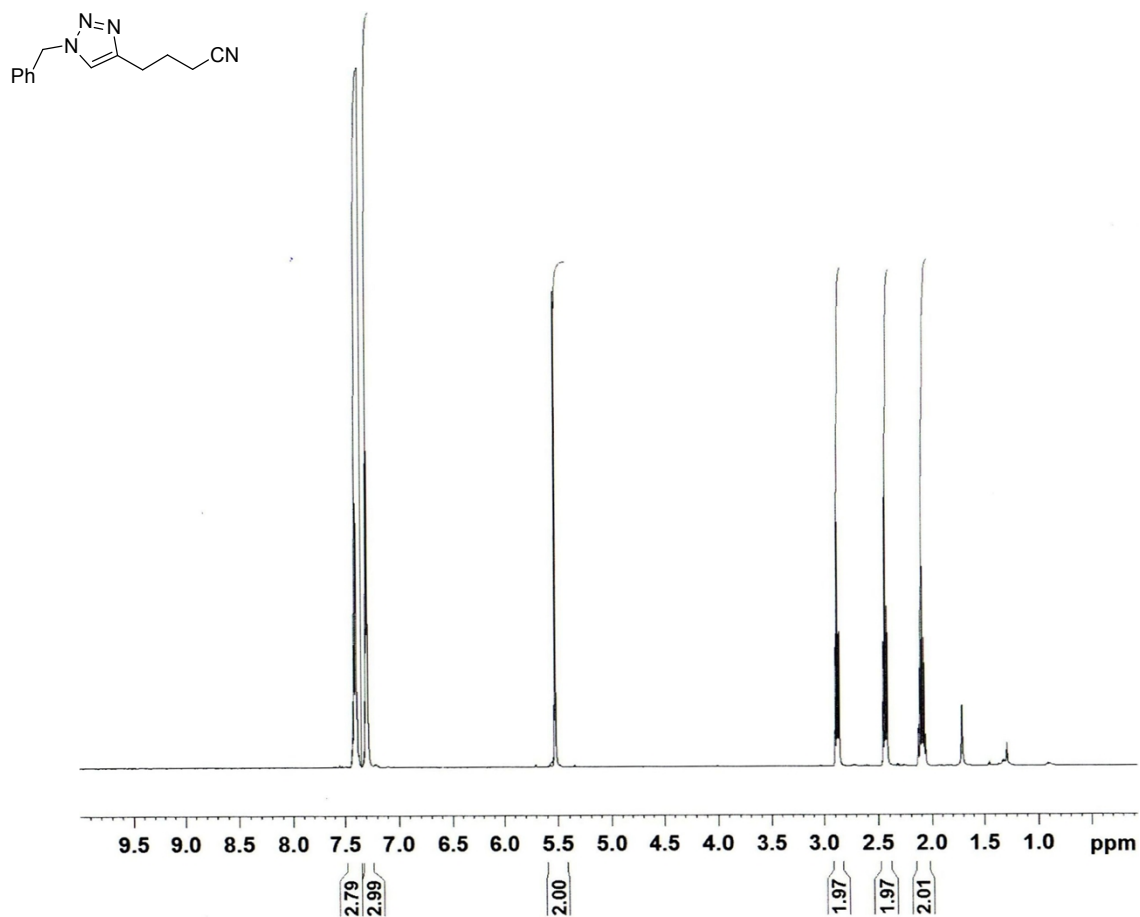
Ethyl 1-benzyl-1H-1,2,3-triazole-4-carboxylate, **14**, ^1H NMR in CDCl_3 :



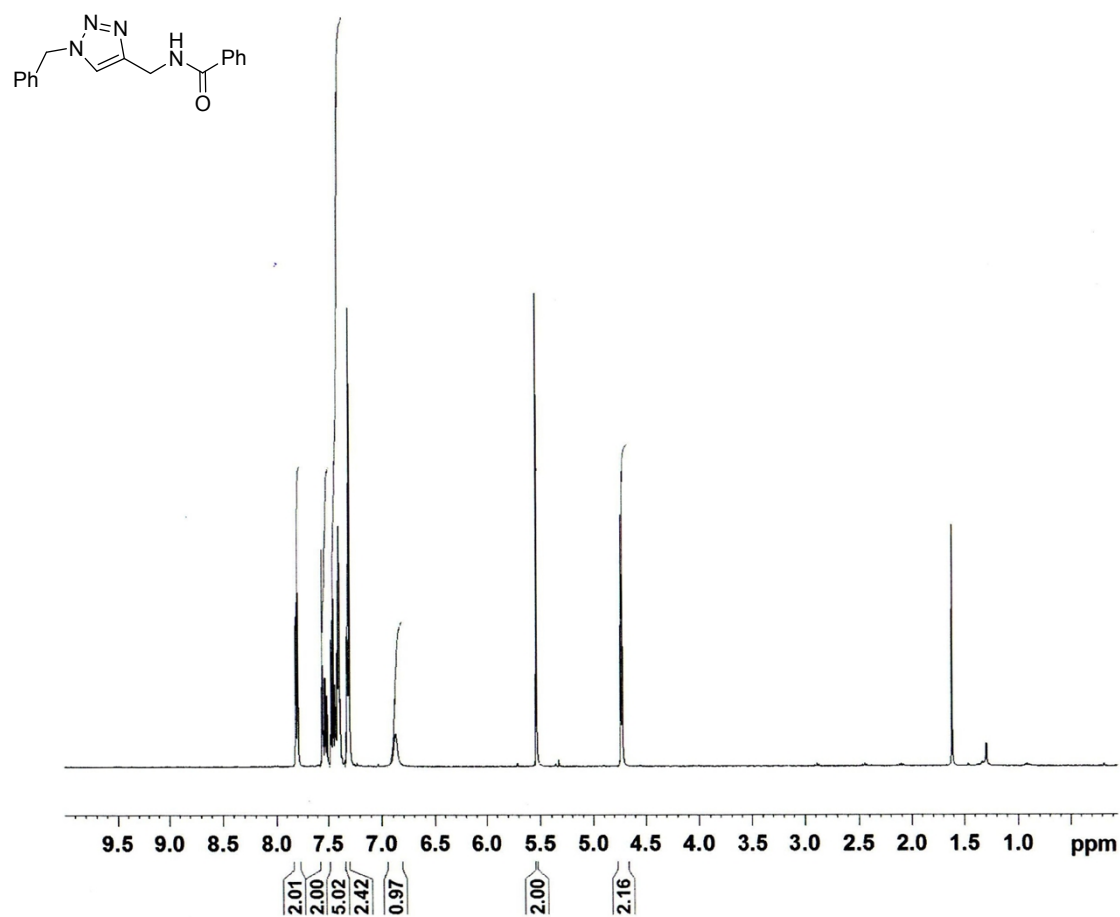
(1-Benzyl-1H-1,2,3-triazol-4-yl)methyl acetate, **15**, ^1H NMR in CDCl_3 :



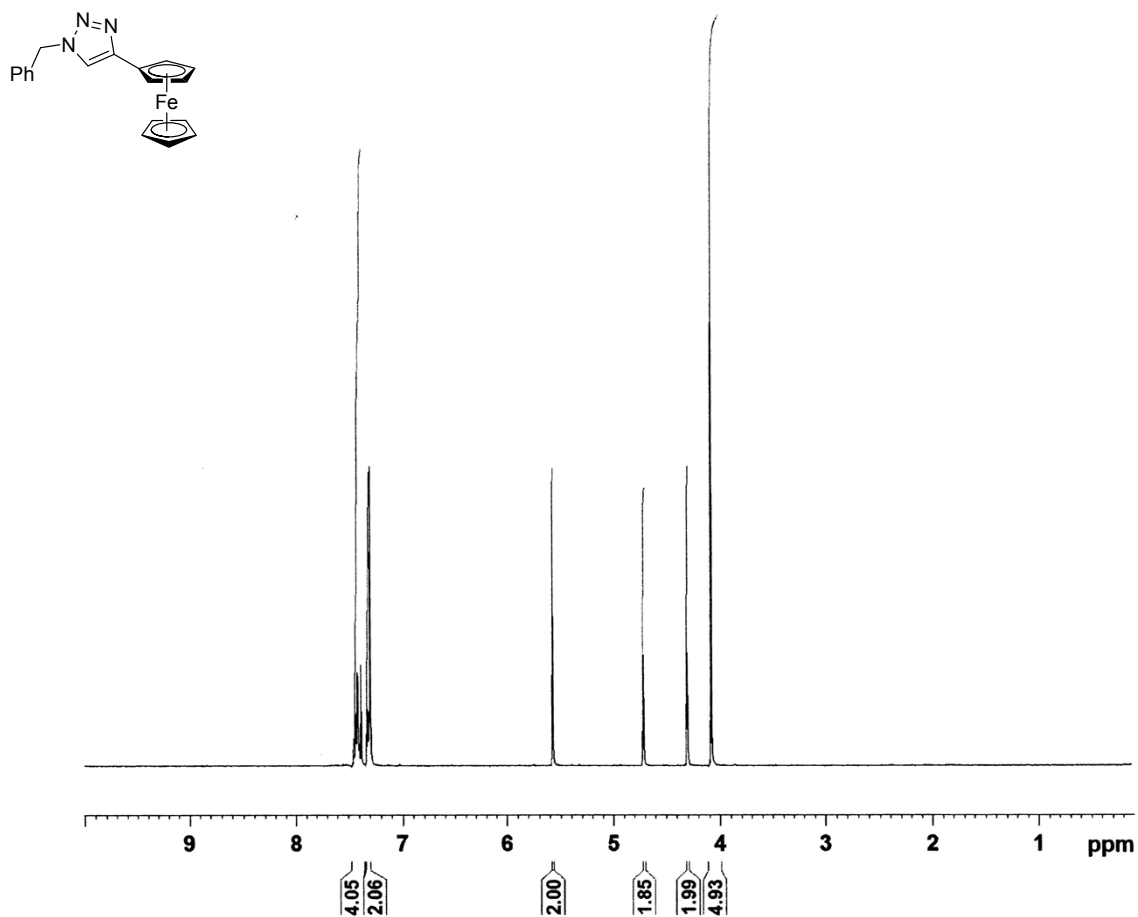
4-(1-Benzyl-1H-1,2,3-triazol-4-yl)butanenitrile, **16**, ^1H NMR in CDCl_3 :



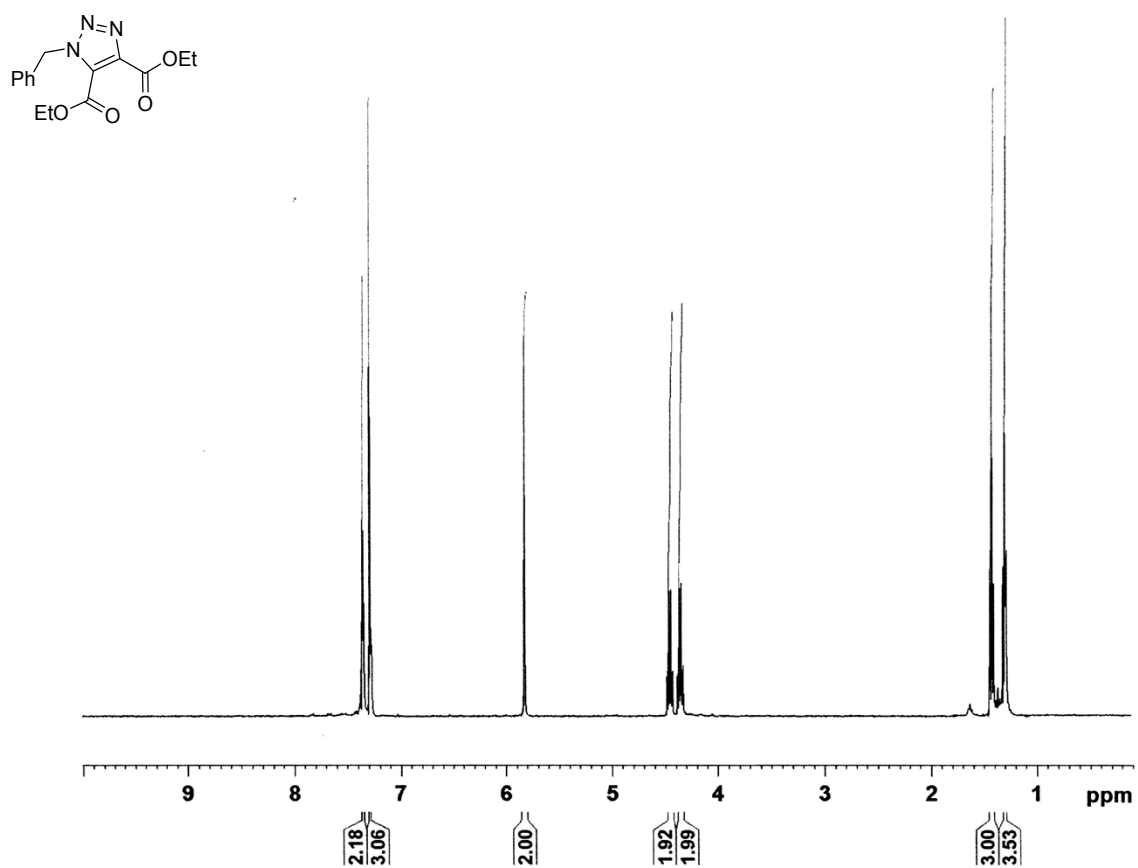
N-((1-benzyl-1H-1,2,3-triazol-4-yl)methyl)benzamide, **17**, ^1H NMR in CDCl_3 :



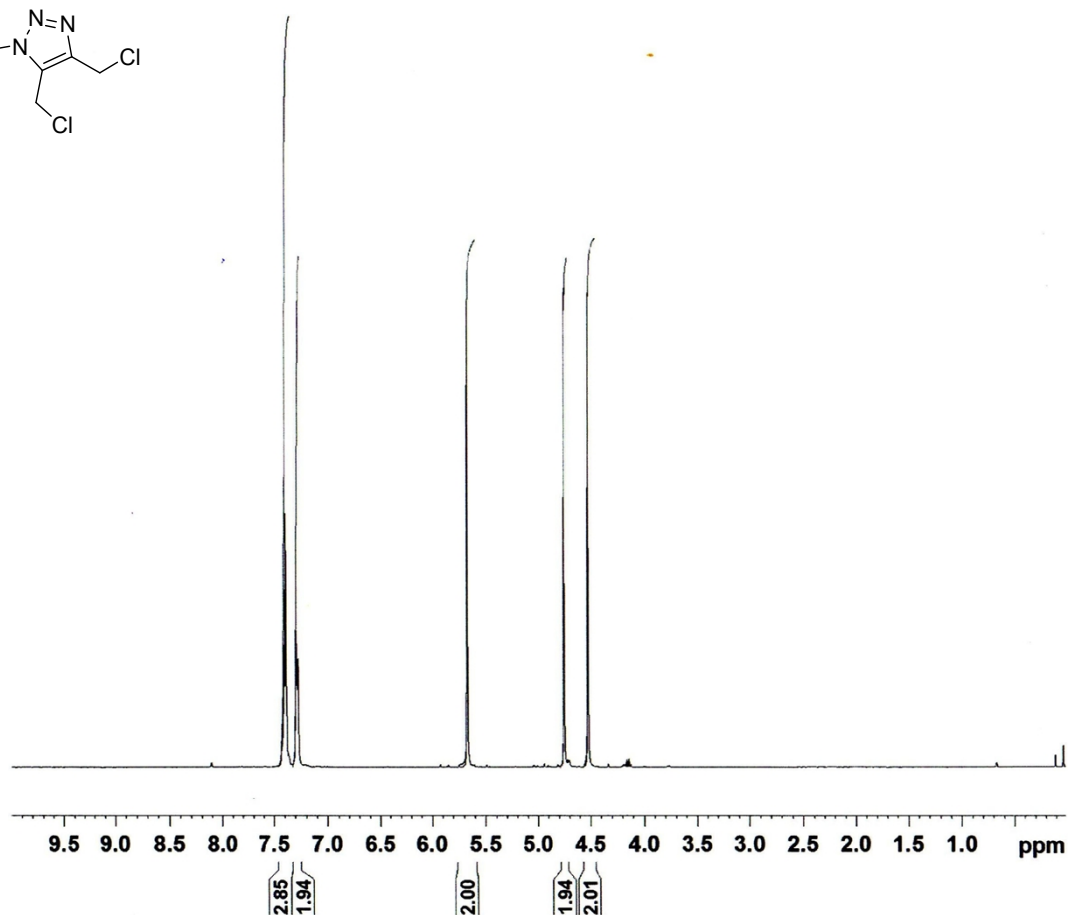
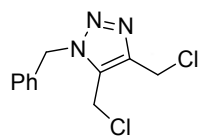
1-Benzyl-4-ferrocenyl-1H-1,2,3-triazole, 18, ¹H NMR in CDCl₃:



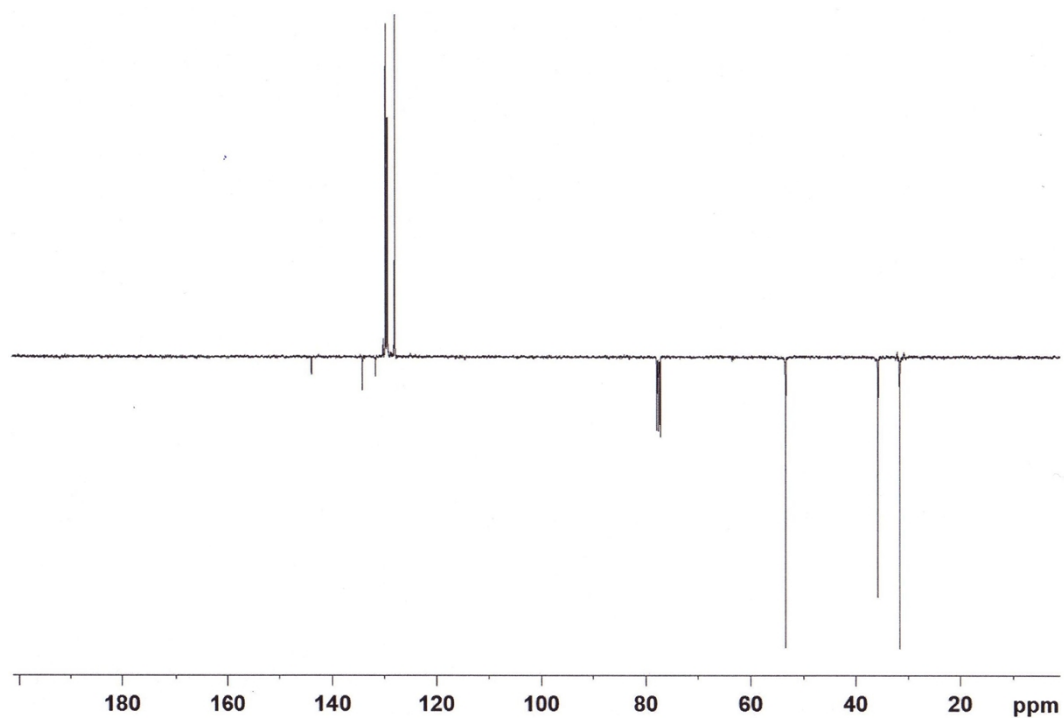
Diethyl 1-benzyl-1H-1,2,3-triazole-4,5-dicarboxylate, 19, ¹H NMR in CDCl₃:



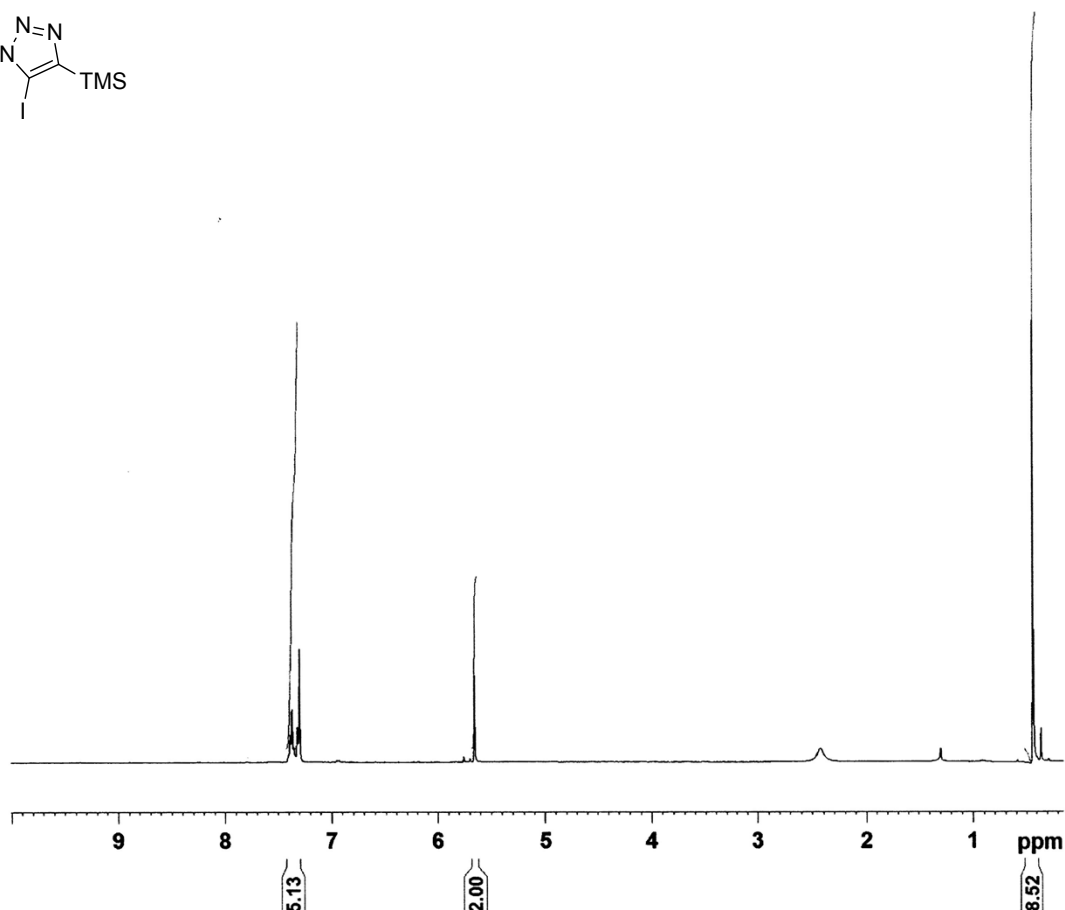
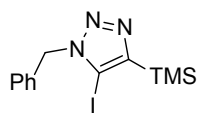
l-Benzyl-4,5-bis(chloromethyl)-1*H*-1,2,3-triazole, **20**, ^1H NMR in CDCl_3 :



^{13}C NMR in CDCl_3 :



1-Benzyl-5-iodo-4-(trimethylsilyl)-1H-1,2,3-triazole, 21, ^1H NMR in CDCl_3 :



3. References

- [S1] C. Shao, X. Wang, Q. Zhang, S. Luo, J. Zhao, Y. Hu, *J. Org. Chem.* **2011**, *76*, 6832.
- [S2] F. Li, T. S. A. Hor, *Chem. Eur. J.* **2009**, *15*, 10585.
- [S3] X. Meng, X. Xu, T. Gao, B. Chen, *Eur. J. Org. Chem.* **2010**, 5409.
- [S4] Y. M. A. Yamada, S. M. Sarkar, Y. Uozumi, *J. Am. Chem. Soc.* **2012**, *134*, 9285.
- [S5] S. Kovács, K. Zih-Perényi, Á. Révész, Z. Novák, *Synthesis* **2012**, *44*, 3722.
- [S6] Z. Gonda, Z. Novák, *Dalton Trans.* **2010**, *39*, 726.
- [S7] R. B. Nasir Baig, R. S. Varma, *Green Chem.* **2012**, *14*, 625.
- [S8] S. Chassaing, A. S. S. Sido, A. Alix, M. Kumarraja, P. Pale, J. Sommer, *Chem. Eur. J.* **2008**, *14*, 6713.
- [S9] B. S. Lee, M. Yi, S. Y. Chu, J. Y. Lee, H. R. Kwon, K. R. Lee, D. Kang, W. S. Kim, H. B. Lim, J. Lee, H.-J. Youn, D. Y. Chi, N. H. Hur, *Chem. Commun.* **2010**, *46*, 3935.
- [S10] D. Wang, N. Li, M. Zhao, W. Shi, C. Ma, B. Chen, *Green Chem.* **2010**, *12*, 2120.
- [S11] P. Shanmugavelan, S. Nagarajan, M. Sathishkumar, A. Ponnuswamy, P. Yogeeswari, D. Sriram, *Bioorg. Med. Chem. Lett.* **2011**, *21*, 7273.
- [S12] L. Li; G. Hao; A. Zhu; S. Liu; G. Zhang, *Tetrahedron Lett.* **2013**, *54*, 6057.