

Electronic Supplementary Information

Unexpected rearrangement of phenoxypicramide to 1,3-dinitro-10*H*-phenoxazine

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Figure S1a. ¹H-NMR spectrum of 1,3-dinitro-10*H*-phenoxazine.

Figure S1b. ¹³C-NMR spectrum of 1,3-dinitro-10*H*-phenoxazine.

Figure S1c. IR spectrum of 1,3-dinitro-10*H*-phenoxazine

Figure S1d. -ESI-MS spectrum of 1,3-dinitro-10*H*-phenoxazine.

Figure S2. UV-Vis spectrum of 1,3-dinitro-10*H*-phenoxazine.

Figure S3a. Crystal packing for 1,3-dinitro-10*H*-phenoxazine along *a*, *b* and *c* axes.

Figure S3b. Molecular structure details.

Figure S4. Simulation (in red) of the experimental ESR spectrum of 1,3-dinitro-10*H*-phenoxazinyl free radical (in blue).

Table S1. Selected bond lengths (Å) and angles (°).

Figure S1a. ^1H -NMR spectrum of 1,3-dinitro-10*H*-phenoxazine.

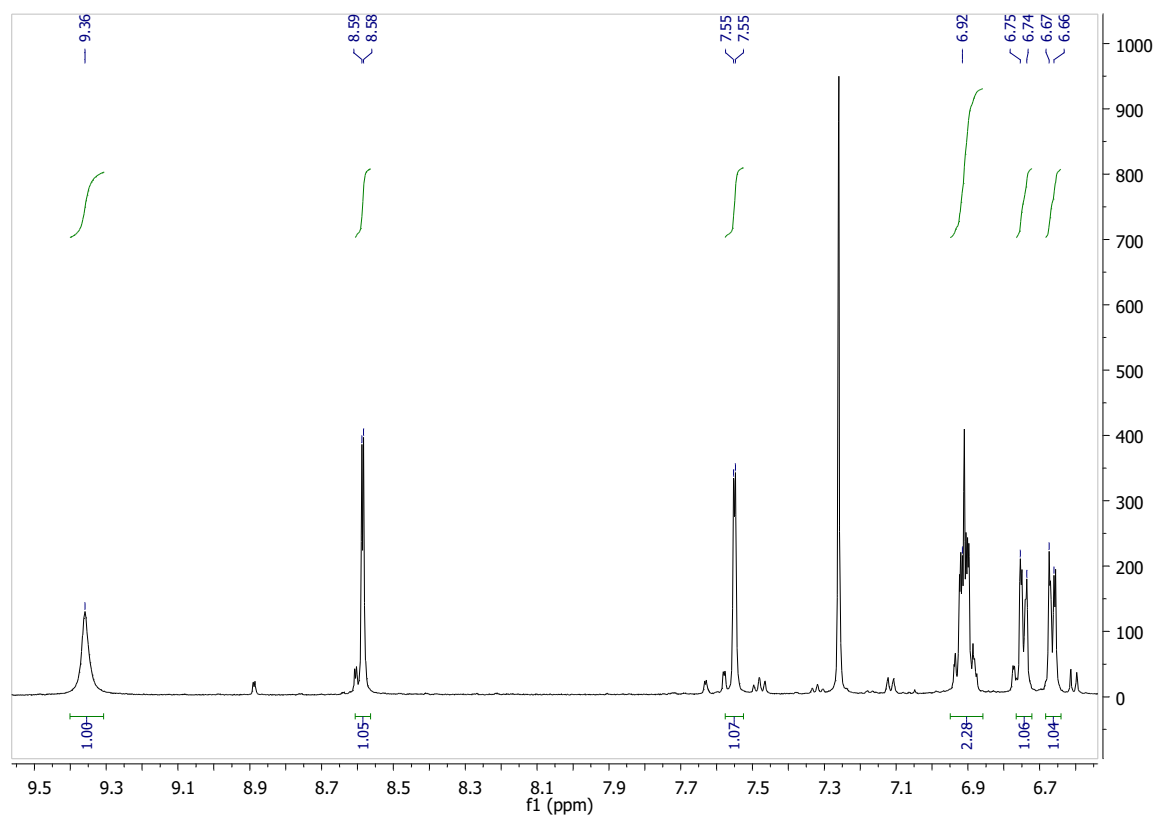


Figure S1b. ^{13}C -NMR spectrum of 1,3-dinitro-10*H*-phenoxazine.

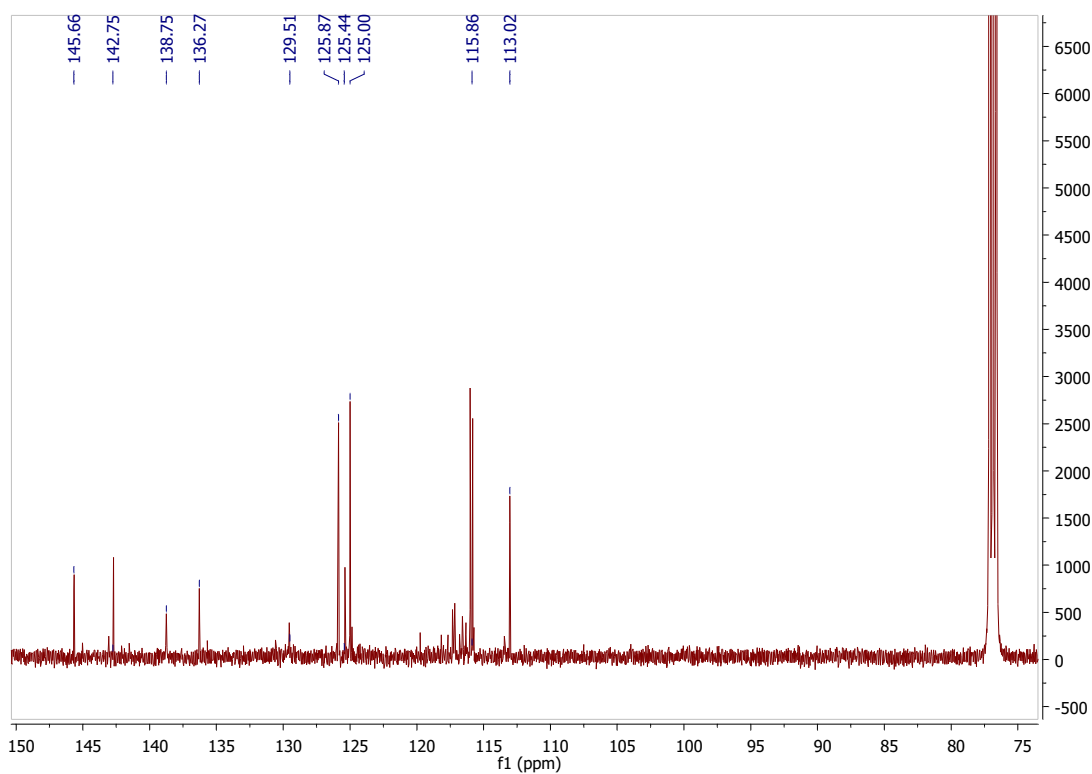


Figure S1c. IR spectrum of 1,3-dinitro-10*H*-phenoxazine

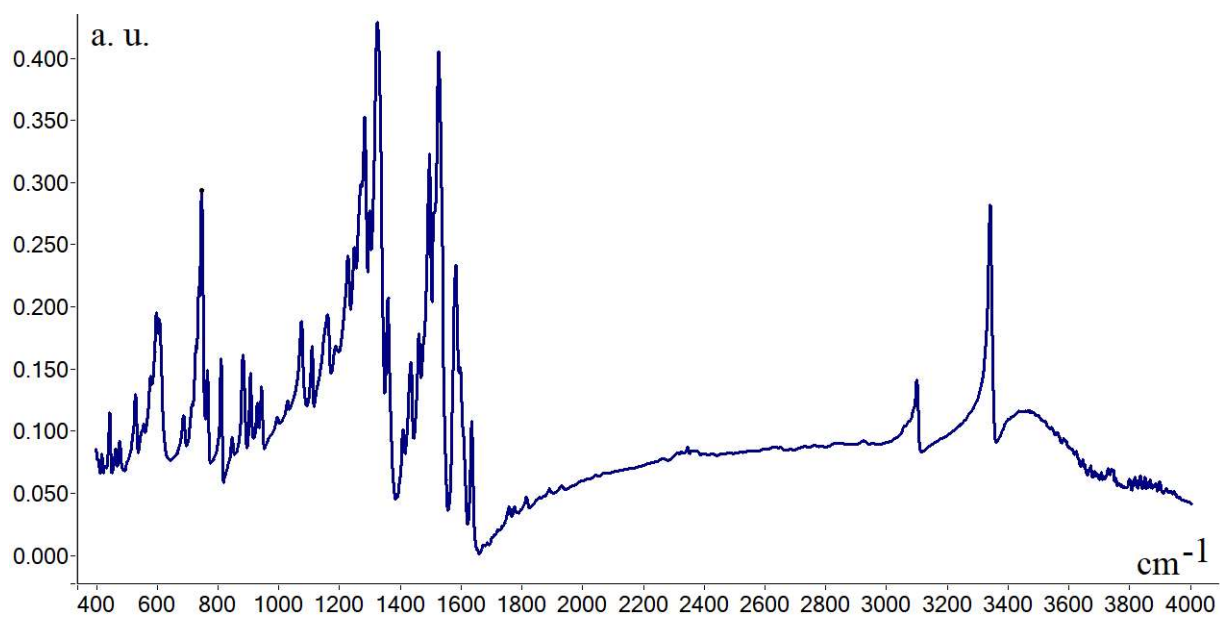


Figure S1d. ESI-MS spectrum of 1,3-dinitro-10*H*-phenoxazine.

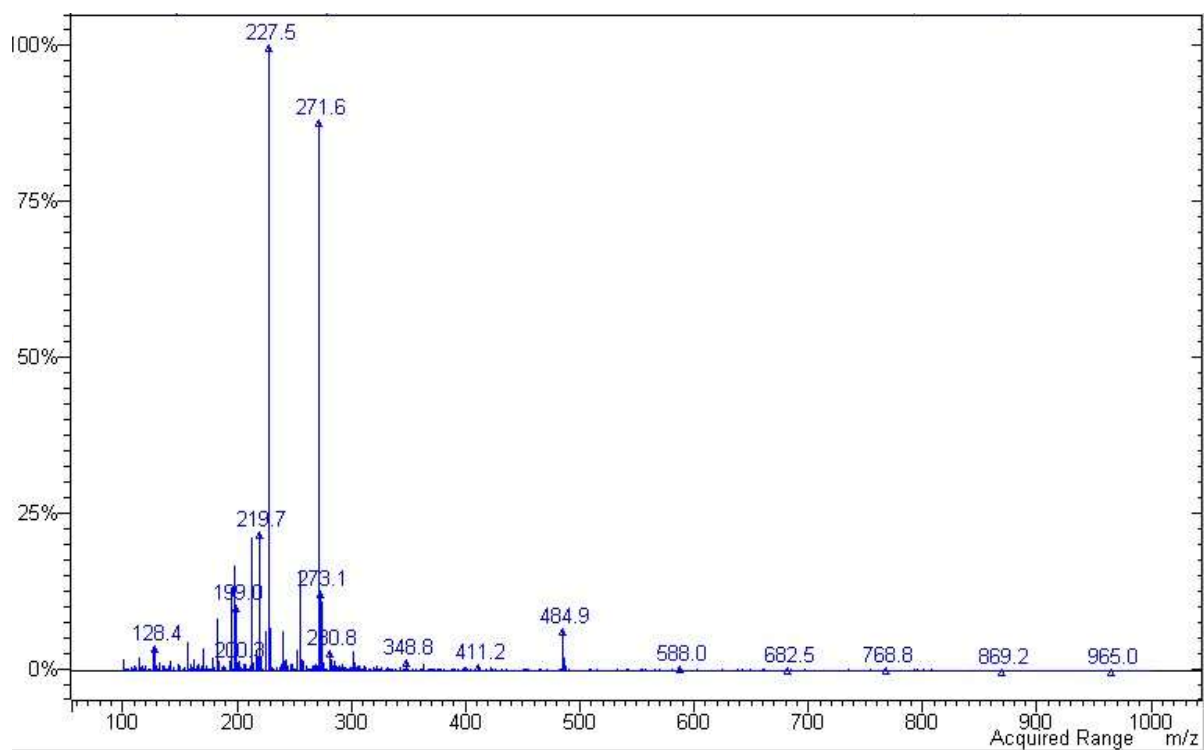


Figure S2. UV-Vis spectrum of 1,3-dinitro-10*H*-phenoxazine.

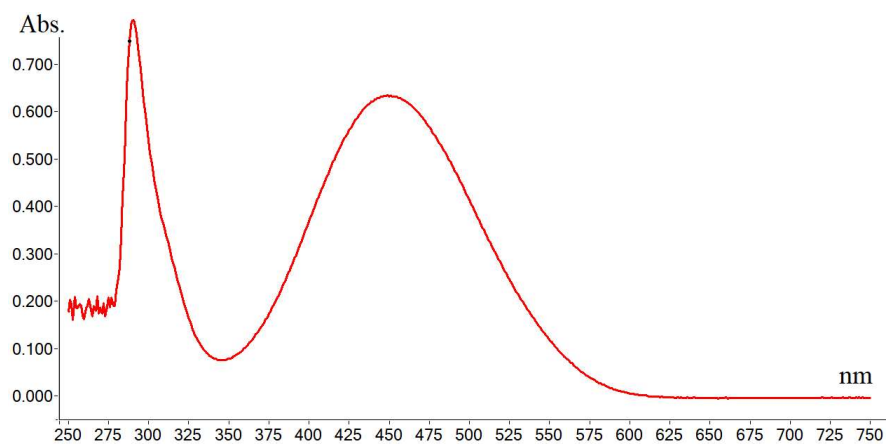


Figure S3a. Crystal packing for 1,3-dinitro-10*H*-phenoxazine along *a*, *b* and *c* axes.

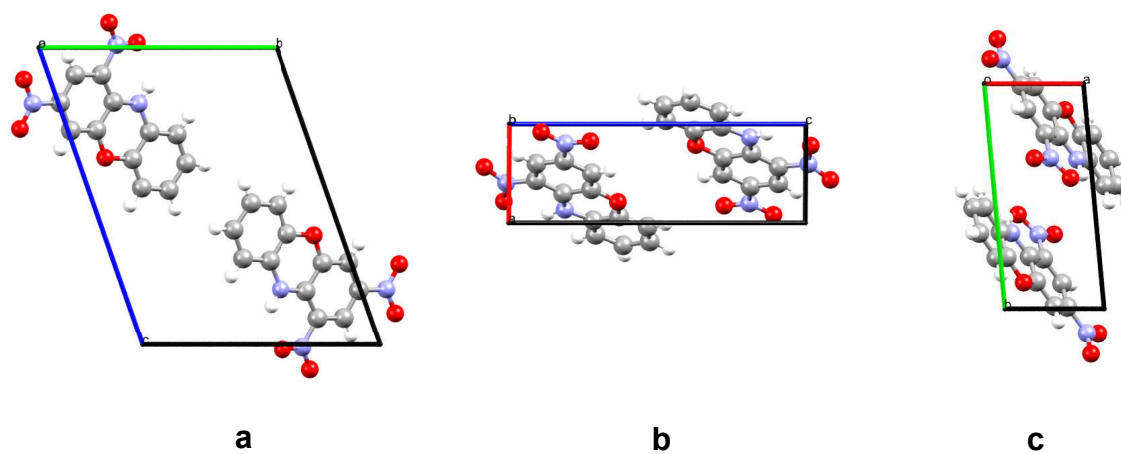


Figure S3b. Molecular structure details.

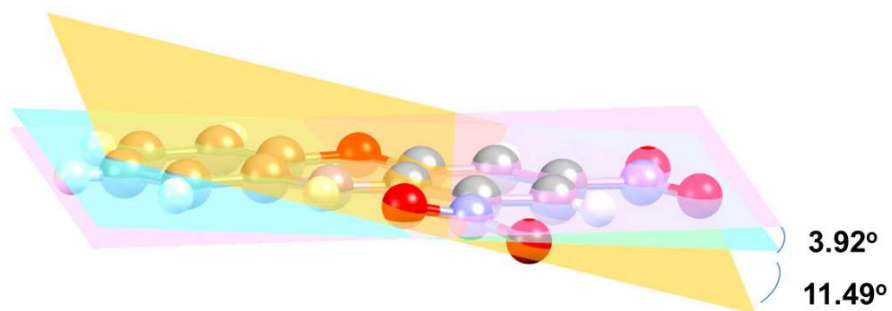


Figure S4. Simulation (in red) of the experimental ESR spectrum of 1,3-dinitro-10*H*-phenoxazinyl free radical (in blue).

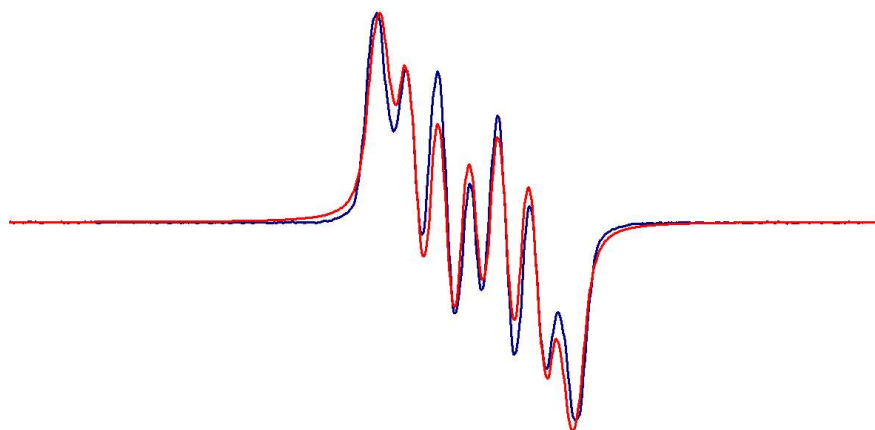


Table S1. Selected bond lengths (Å) and angles (°).

Bond lengths, (Å)		Bond angles, (°)	
O1-C5	1.389(2)	C5-O1-C8	119.36(12)
O1-C8	1.369(2)	C6-N1-C7	121.77(12)
O2-N2	1.2218(18)	O2-N2-O3	123.61(17)
O3-N2	1.219(2)	O2-N2-C10	117.78(17)
O4-N3	1.218(2)	O3-N2-C10	118.60(13)
O5-N3	1.242(2)	O4-N3-O5	122.48(12)
N1-C6	1.403(2)	O4-N3-C12	119.32(15)
N1-C7	1.352(2)	O5-N3-C12	118.19(14)
N-C10	1.456(2)	C2-C1-C6	119.78(15)
N3-C12	1.4496(18)	C1-C2-C3	120.6(2)
C1-C2	1.385(3)	C2-C3-C4	119.7(2)
C1-C6	1.378(3)	C3-C4-C5	119.61(16)
C2-C3	1.382(2)	O1-C5-C4	118.15(14)
C3-C4	1.379(3)	O1-C5-C6	120.43(16)
C4-C5	1.366(3)	C4-C5 C6	121.42(18)
C5-C6	1.391(2)	N1-C6-C1	122.20(13)
C7-C8	1.4298(19)	N1-C6-C5	118.90(17)
C7-C12	1.412(2)	C1-C6-C5	118.90(17)
C8-C9	1.358(3)	N1-C7-C8	118.15(15)
C9-C10	1.396(3)	N1-C7-C12	126.34(13)
C10-C11	1.368(2)	C8-C7-C12	115.51(15)

C11-C12	1.393(2)	O1-C8-C7	120.97(16)
		O1-C8-C9	116.89(13)
		C7-C8-C9	122.12(16)
		C8-C9-C10	119.53(14)
		N2-C10-C9	118.78(13)
		N2-C10-C11	119.49(17)
		C9-C10-C11	121.72(17)
		C10-C11-C12	118.31(17)
		N3-C12-C7	120.80(15)
		N3-C12-C11	116.40(15)
		C7-C12-C11	122.81(13)

References

1. Sheldrick, G. M. *Acta Cryst.*, 2008, *A64*, 112-122.
2. Crystal Structure Analysis Package, CrystalStructure 4.2. Rigaku Corporation (2000-2015), Tokyo 196-8666, Japan.