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Crystal structure analysis of 1,1'-((9,9-dihexyl-9H-fluorene-2,7-diyl)bis(methylene))bis(4-((3,5-bis(chloromethyl) phenoxy)methyl)-1H-1,2,3-triazole)

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Abstract: The crystal structure of 1,1'-((9,9-dihexyl-9H-fluorene-2,7-diyl)bis(methylene))bis(4-((3,5-bis(chloromethyl)phenoxy)methyl)-1H-1,2,3-triazole) ($C_{49}H_{56}Cl_4N_6O_2$). The compound crystallizes in Triclinic P-1 space group with unit cell parameters at 296(2) K as follows: a = 13.1712(3)Å, b = 13.8053(3) Å, c= 13.9774(3)Å, α = 84.140(1)°, β= 71.691(1)° γ = 86.727(1)°. Crystal data were collected using BRUKER SMART APEX II CCD X-ray diffractometer. The structure was solved by direct methods and refined on F^2 by full-matrix least-squares procedures to the final R_1 of 0.065 using SHELXL programs.

Key Words: triazole, methylene and crystal structure.

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