MOLECULAR AND CRYSTAL STRUCTURE OF 4-TRIFLUORO-2-[2-(4-FLUOROPHENYL)HYDRAZINE-1-YLIDENE]-1-(THIOPHEN -2-YL)BUTANE-1,3-DIONE

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Single crystal X-ray diffraction is used to determine the crystal and molecular structure of 4-trifluoro-2-[2-(4-fluorophenyl)hydrazine-1-ylidene]-1-(thiophen-2-yl)butane-1,3-dione. Crystallographic data for $C_{14}H_8F_4N_2O_2S$ are as follows: a = 8.2723(6) Å, b = 9.3009(7) Å, c = 9.9895(7) Å; α = 79.224(2)°, β = 75.851(2)°, γ = 72.337(2)°. Triclinic crystal system, P-1 space group, d_x = 1.622 g/cm^3, V = 704.83(9) Å^3, μ = 0.286 mm^{-1}, crystal size 0.30×0.20×0.20 mm, $R1$ = 0.0891, $wR2$ = 0.1989.

Keywords: single crystal X-ray diffraction, crystal structure, β-diketone, 4-trifluoro-2-[2-(4-fluorophenyl)hydrazine-1-ylidene]-1-(thiophen-2-yl)butane-1,3-dione.