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Ethyl 1-(4-methylphenyl)-5-phenyl-4-phenylsulfonyl-1H-pyrazole-3-carboxylate

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Abstract: The title compound, $C_{25}H_{22}N_2O_4S$, features a tetra-substituted pyrazole ring. The dihedral angles formed between the five-membered ring (r.m.s. deviation = 0.007 Å) and the N- and C-bound phenyl rings are 48.10 (7) and 72.01 (7) °, respectively, indicating that the planes through the residues are significantly twisted from the plane through the heterocycle. The ester-CO₂ group is also twisted out of this plane, with an O-C-C-N torsion angle of -29.04 (11)°. The sulfonyl-O atoms lie to one side of the pyrazole plane and the sulfonylphenyl ring to the other. The dihedral angle between the two ring planes is 70.63 (7) °. Supramolecular arrays are formed in the crystal structure sustained by C-H...O and C-H... π (pyrazole) interactions and methyl-C-H... π (N-bound benzene) contacts.