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2-Cinnamyl-1,3-oxazole-4-carboxaldehyde p-Toluenesulfonyl Hydrazone

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To a stirred solution of p-toluenesulfonylhydrazide (0.61 g, 3.3 mmol) in methanol/water (6:4, 20 ml) at 60°C was added 2-cinnamyl-1,3-oxazole-4-carboxaldehyde [1](0.50 g, 2.5 mmol). The solution was cooled to room temperature and stored in the refrigerator overnight. The precipitate which formed was collected by filtration and washed with methanol/water mixture (6:4, 10 ml) to give 2-cinnamyl-1,3-oxazole-4-carboxaldehyde p-toluenesulfonyl hydrazone as a colorless solid (0.66 g, 72%).

M.p. 177-179 °C.

$^1$H NMR (CDCl$_3$): 12.04 (s, 1H); 7.93-7.82 (m, 3H); 7.64-7.62 (m, 3H); 7.46-7.43 (m, 3H); 7.42-7.34 (m, 3H); 6.90 (d, J=16.7, 1H); 2.42 (s, 3H).

$^{13}$C NMR (CDCl$_3$): 163.0, 144.7, 139.0, 138.9, 137.3, 136.0, 135.3, 129.9, 129.8, 129.5, 128.9, 127.8, 127.4, 114.4, 21.4.

IR (neat): $\nu_{\text{max}}$ 3149, 2934, 2919, 1716, 1648, 1060, 962, 805 cm$^{-1}$.

Anal. calc. for C$_{19}$H$_{17}$N$_3$O$_3$S (367.43): C 62.11, H 4.66, N 11.44; found: C 62.15, H 4.73, N 11.26.

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Reference


Sample Availability: Available from the author and from MDPI.
2-Cinnamyl-1,3-oxazole-4-carboxaldehyde p-toluenesulfonyl hydrazone...