

Supporting Information

for

Chiral multifunctional thiourea-phosphine catalyzed asymmetric [3 + 2] annulation of Morita–Baylis–Hillman carbonates with maleimides

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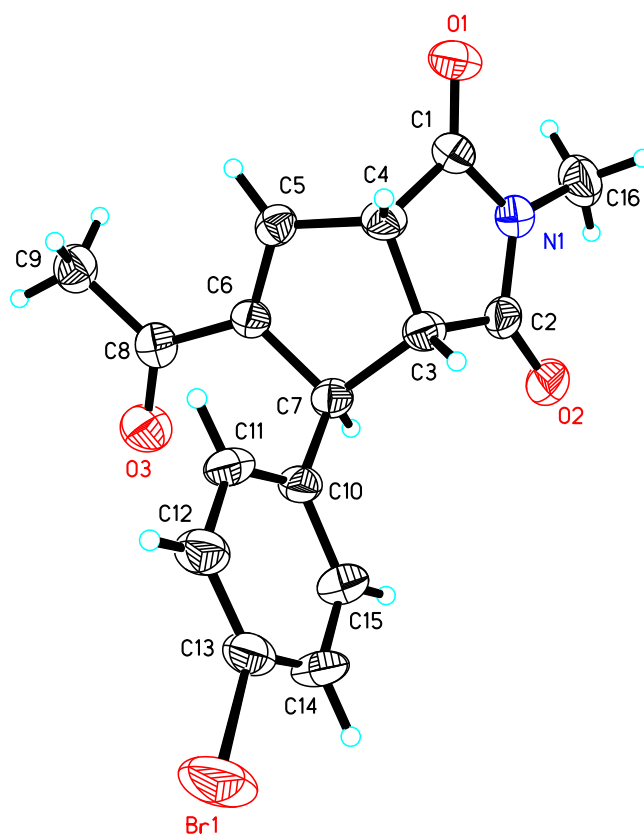
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Crystal structure data of compound 3r



The crystal data of **3r** have been deposited in CCDC with number 863228. Empirical Formula: $C_{16}H_{14}BrNO_3$; Formula Weight: 348.19; Crystal Color, Habit: colorless, Crystal Dimensions: $0.211 \times 0.157 \times 0.104$ mm; Crystal System: Orthorhombic; Lattice Parameters: $a = 9.5280(6)\text{\AA}$, $b = 9.6271(6)\text{\AA}$, $c = 16.3779(10)\text{\AA}$, $\alpha = 90^\circ$, $\beta = 90^\circ$, $\gamma = 90^\circ$, $V = 1502.30(16)\text{\AA}^3$; Space group: $P2(1)2(1)2(1)$; $Z = 4$; $D_{calc} = 1.539\text{ g/cm}^3$; $F_{000} = 704$; Final R indices [$I > 2\sigma(I)$]: $R1 = 0.0384$; $wR2 = 0.0900$.