

Differences in the crystal structures of two dialkyl diester triphenyl-phosphonium ylids

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Hydrogen bonding and crystal packing play major roles in determining the conformations of ethyl methyl 2-(triphenyl-phospho-ranyl-idene)malonate, $\text{Ph}_3\text{P}=\text{C}(\text{CO}_2\text{CH}_3)\text{CO}_2\text{CH}_2\text{CH}_3$ or $\text{C}_{24}\text{H}_{23}\text{O}_4\text{P}$, (I), and dimethyl 2-(triphenyl-phosphor- anyl-idene)malonate, $\text{Ph}_3\text{P}=\text{C}(\text{CO}_2\text{CH}_3)_2$ or $\text{C}_{23}\text{H}_{21}\text{O}_4\text{P}$, (II). In (I), the acyl O atom of the ethyl ester group is anti to the P atom, while the O atom of the methyl ester group is syn. In (II), the dimethyl diester is a 1:1 mixture of anti-anti and syn-anti conformers. © International Union of Crystallography 2007.