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tldr calculation results indicate that the rate determining step in the whole catalytic reaction is the transfer of a hydride from ruthenium to the carbonyl carbon of ethyl acetate with a total free energy barrier of only 26.9 kcal mol⁻¹ which is consistent with experimental observations and significantly lower than the relative free energy

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continuous flow processes are considered as a universal lever to overcome these restrictions and only recently joint efforts between synthetic and polymer chemists and chemical engineers have resulted in the first continuous flow devices and microreactors these allow rapid preparation of compounds with minimum workup

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although carbon nanotubes and fullerenes are allotropes of carbon their material properties are somewhat foreign to many organic chemists who traditionally have focused on smaller organic molecules having very different properties however these properties are familiar to inorganic chemists

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an efficient and scalable route to tert butyl 3 oxo 3h spiro benzofuran 2 4 piperidine 1 carboxylate a central prochiral intermediate in the synthesis of shp2 inhibitor gdc 1971 migoprotafib was achieved preparation of the title compound from readily available 2 fluorobenzaldehyde included formation of a modified katritzky benzotriazole hemiaminal which upon deprotonation by n

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