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Supporting Information

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**The Role of Non-innocent Solvent Molecules in Organocatalyzed
Asymmetric Michael Addition**

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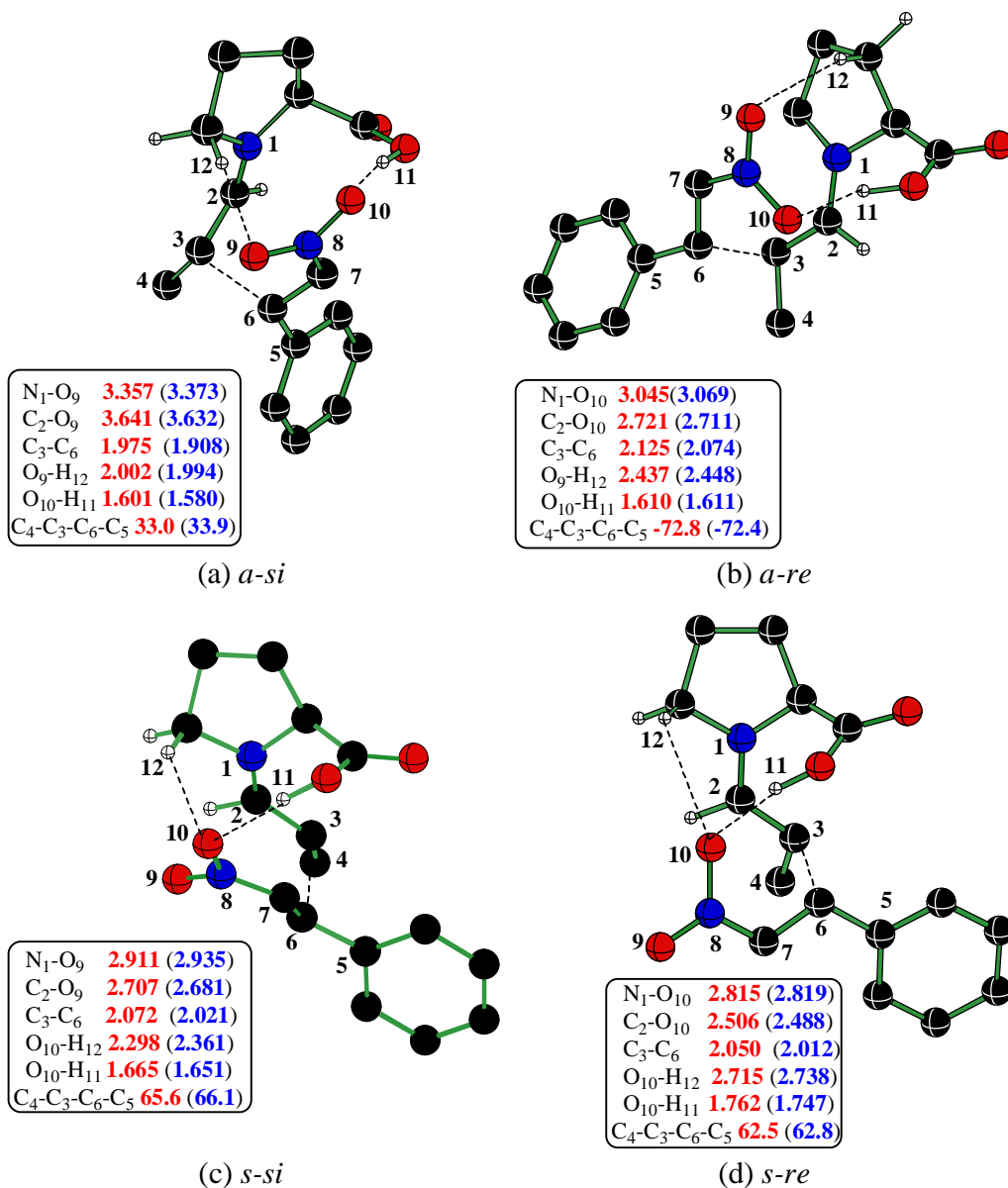


Figure S1. The mPW1PW91/6-31G* optimized transition state geometries for four stereochemical modes of addition for enamines derived from proline and propanal (**1**) to nitrostyrene. The values in parentheses refer to the optimized bond lengths at the B3LYP/6-31G* level of theory. Only selected hydrogens are shown for sake of clarity. Angles are given in degrees and distances in Å. [Atom colors: Black = C, Red = O, Blue = N].

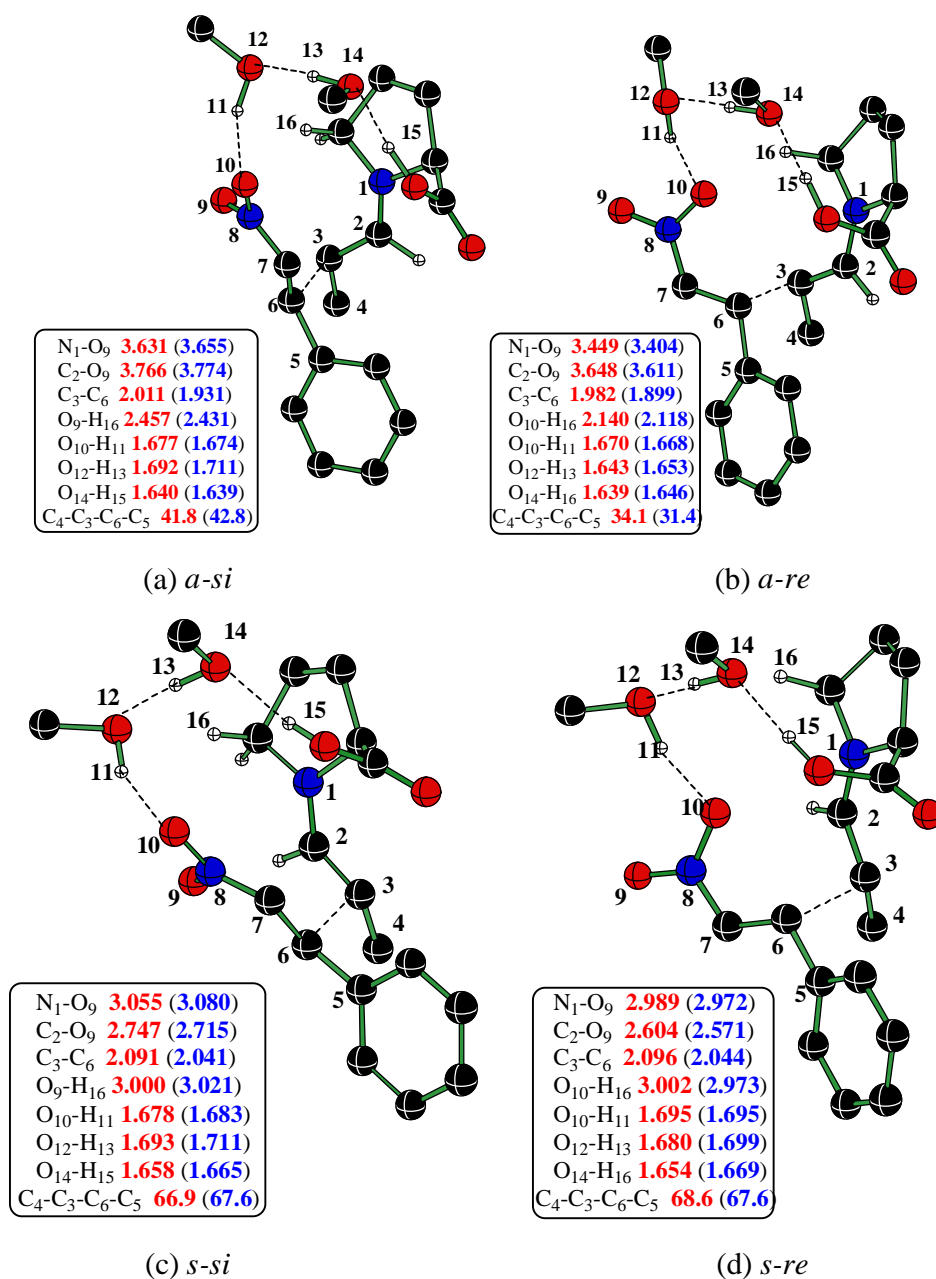


Figure S2. The mPW1PW91/6-31G* optimized transition state geometries for four stereochemical modes of methanol assisted addition of enamines (C₂ model) derived from proline and propanal (**1**) to nitrostyrene. The values in parentheses refer to the optimized bond lengths at the B3LYP/6-31G* level of theory. Only selected hydrogens are shown for sake of clarity. Angles are given in degrees and distances in Å. [Atom colors: Black = C, Red = O, Blue = N].

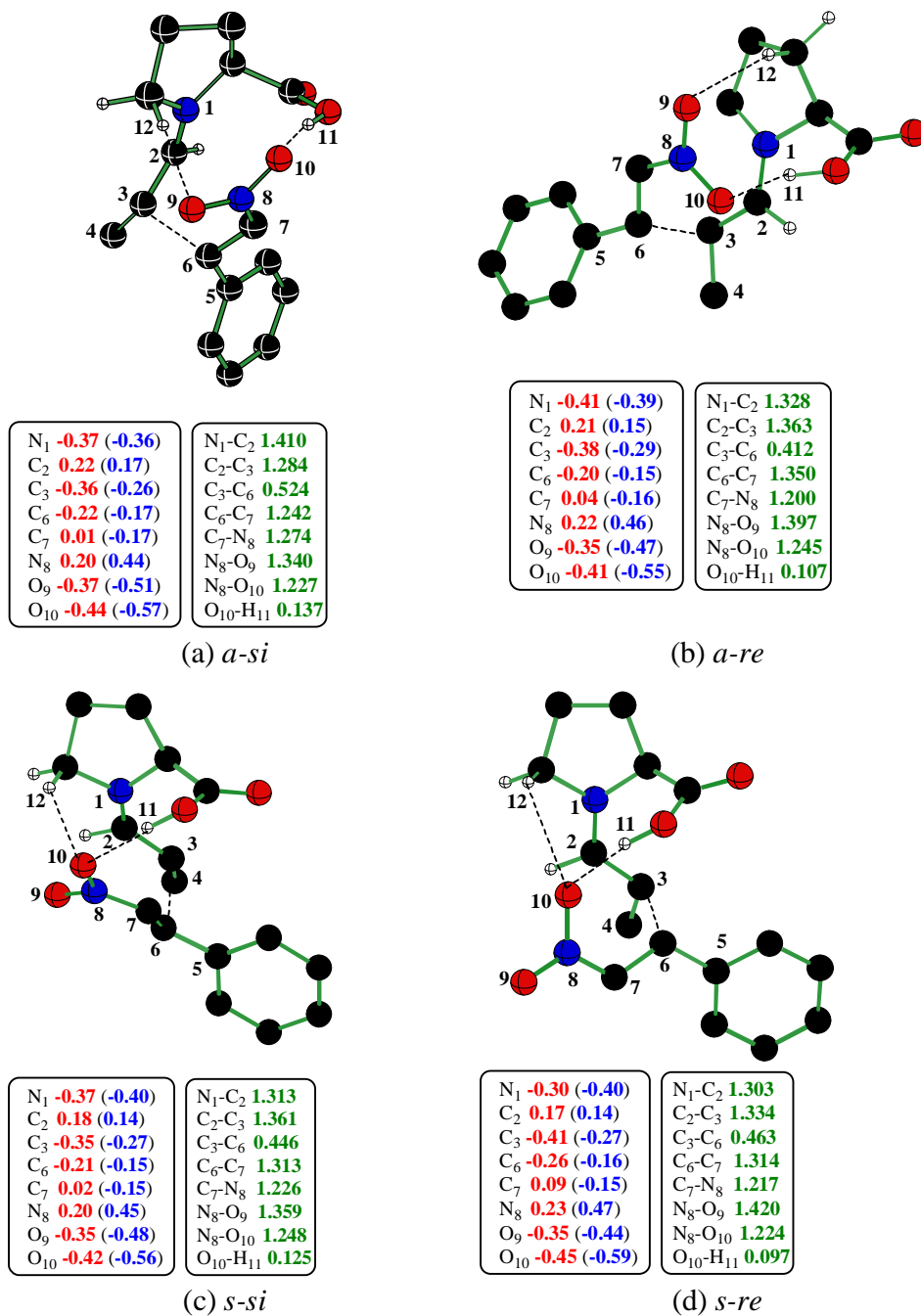


Figure S3. Bond Order (in green) for Representative Bonds, Natural (in blue) and Mulliken Charges (in red) for Selected Atoms of Transition States of Four Stereochemical Modes of Addition of Enamines Derived from Proline and Propanal (**1**) to Nitrostyrene Computed at the mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

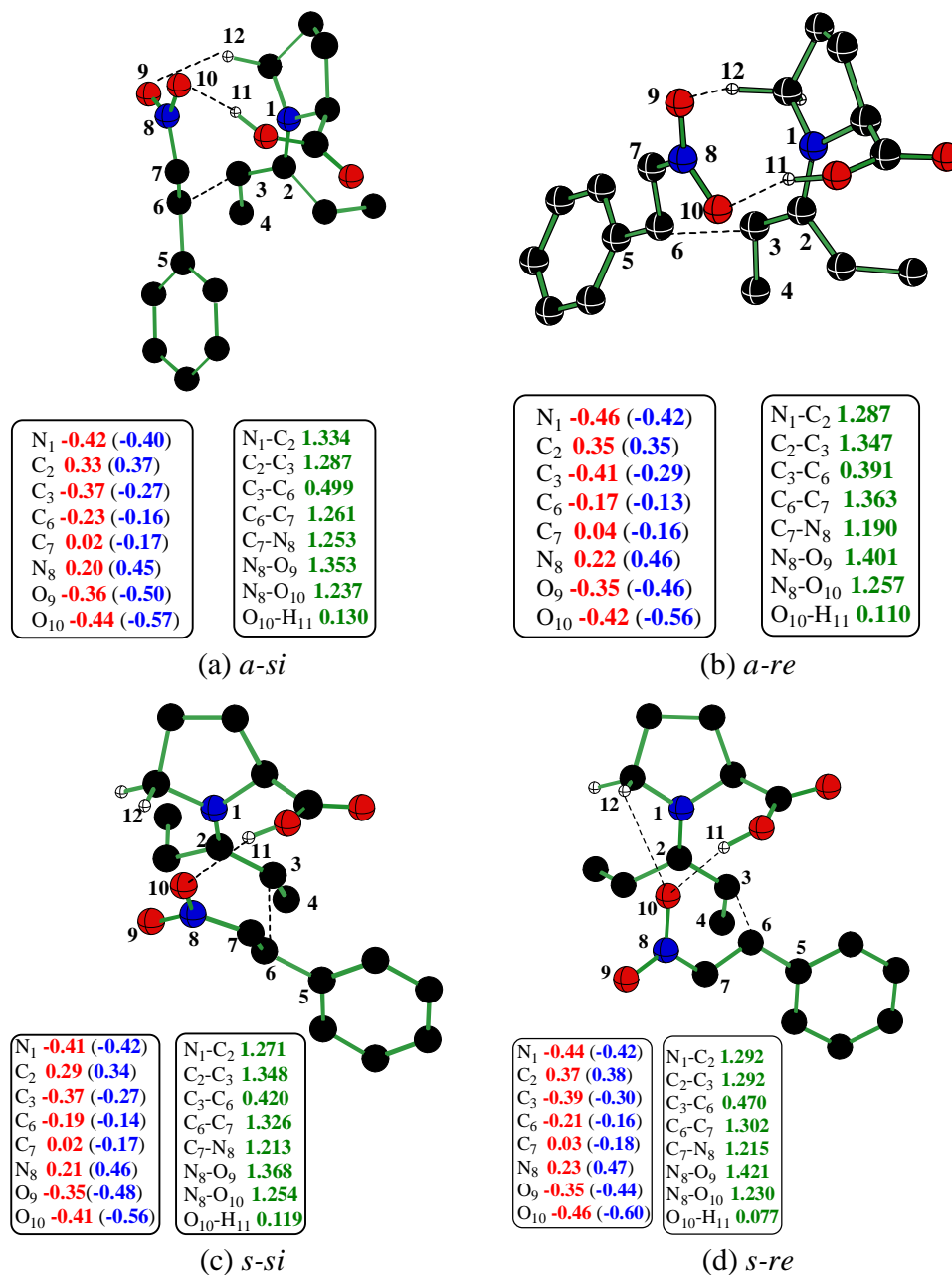


Figure S4. Bond Order (in green) for Representative Bonds, Natural (in blue) and Mulliken Charges (in red) for Selected Atoms of Transition States for Four Stereochemical Modes of Addition of Enamines Derived from Proline and 3-Pentanone (2) to Nitrostyrene Computed at the mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

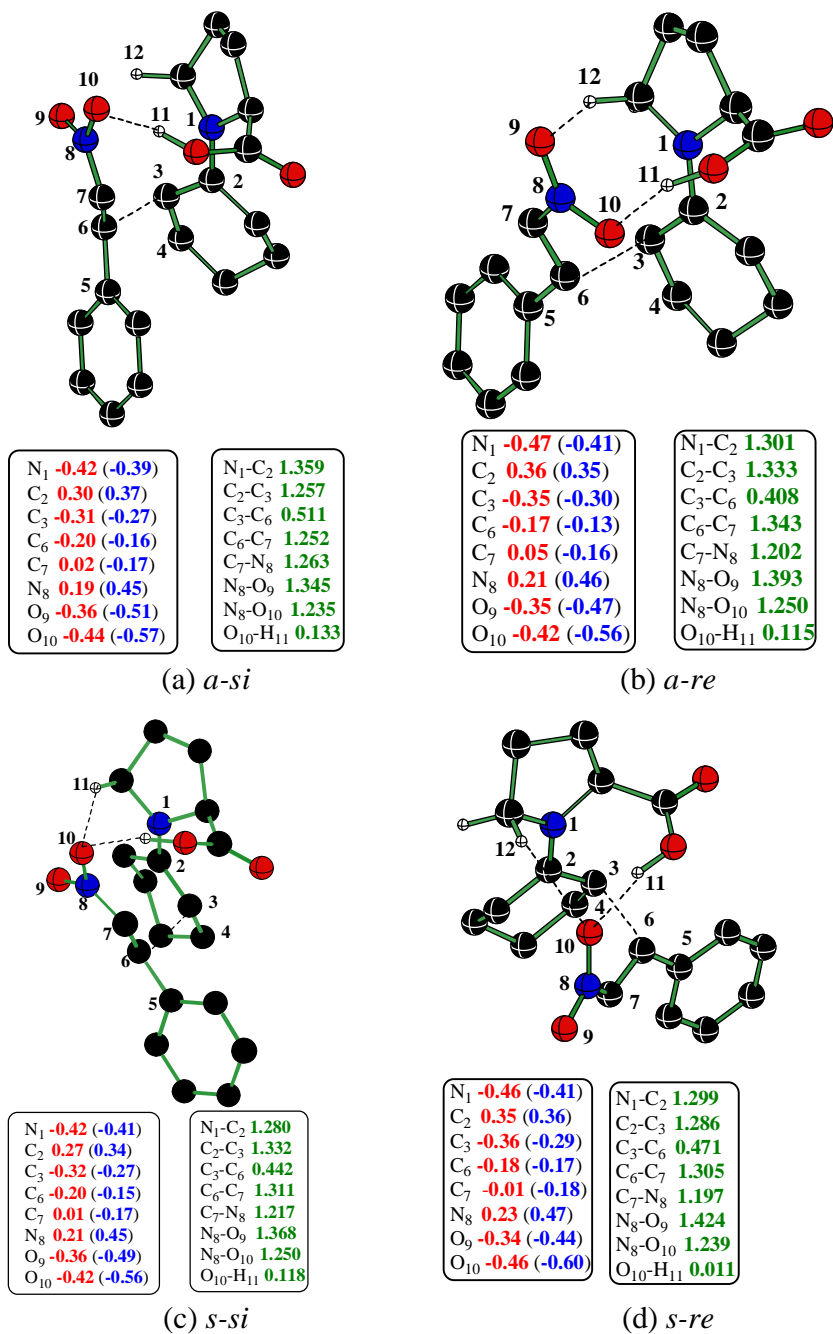


Figure S5. Bond Order (in green) for Representative Bonds, Natural (in blue) and Mulliken Charges (in red) for Selected Atoms of Transition States of Four Stereochemical Modes of Addition of Enamines Derived from Proline and Cyclohexanone (**3**) to Nitrostyrene Computed at the mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

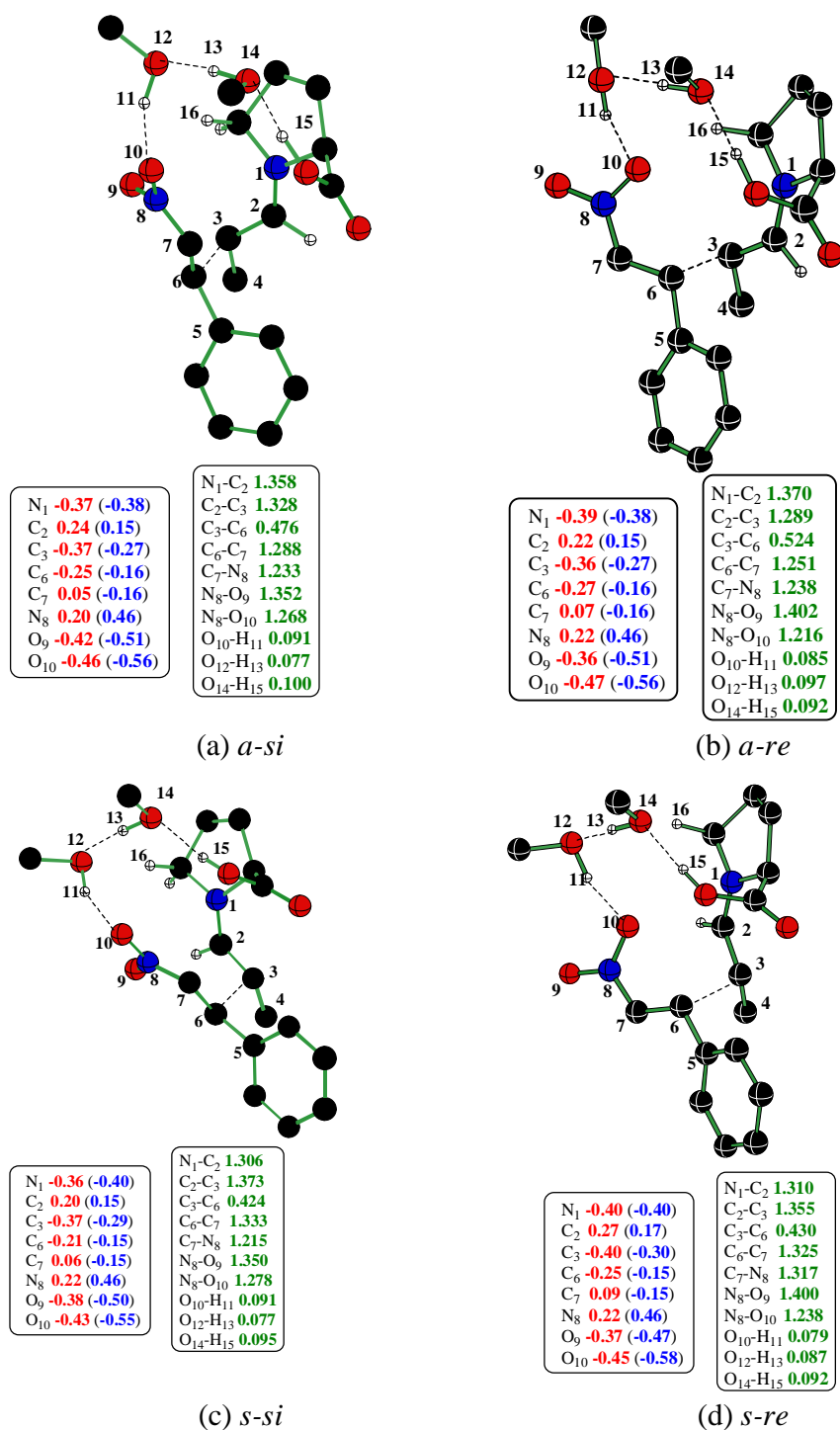


Figure S6. Bond Order (in green) for Representative Bonds, Natural (in blue) and Mulliken Charges (in red) for Selected Atoms of Transition States for Four Stereochemical Modes of Addition of Enamines Derived from Proline and Propanal (**1**) to Nitrostyrene Using Solvent-Assisted Pathway (C₂ model) Computed at the mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

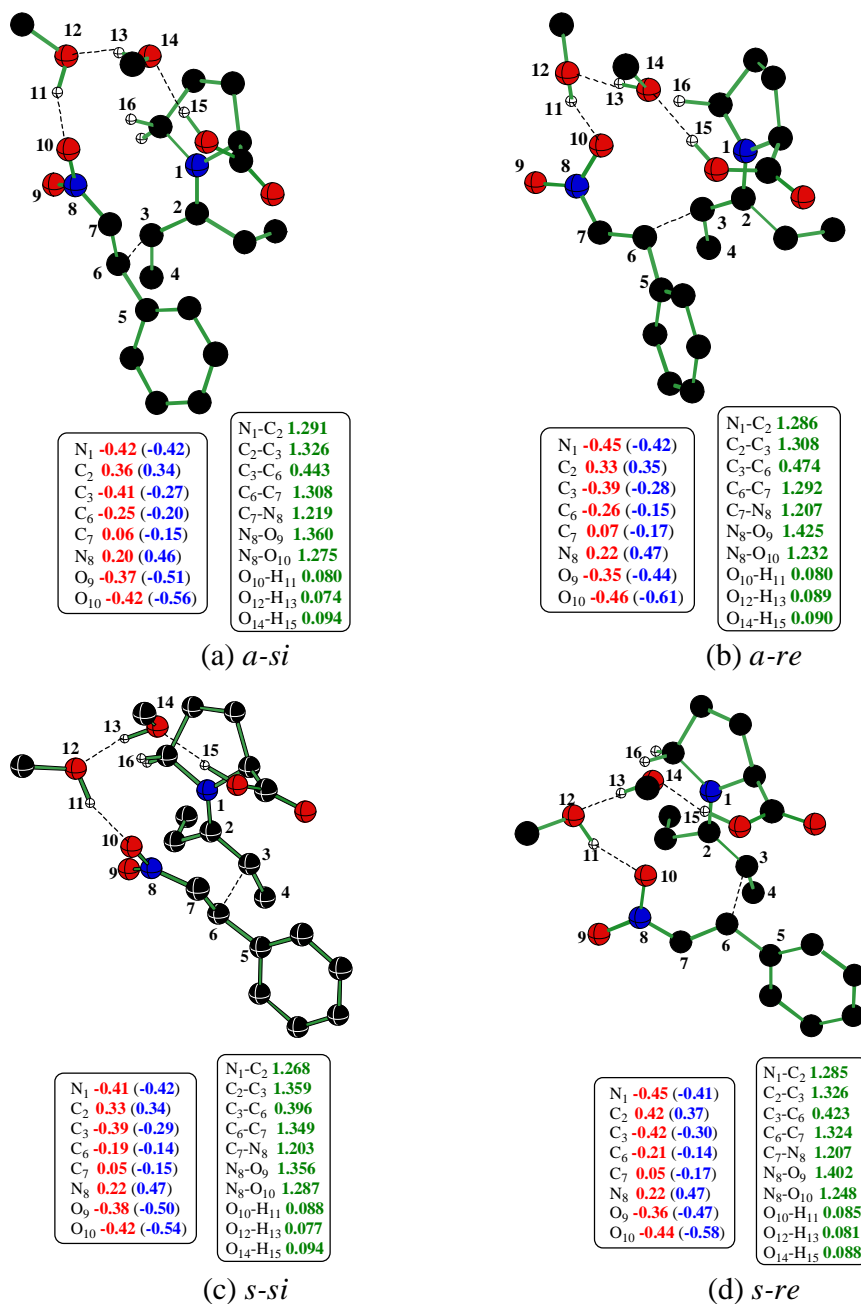


Figure S7. Bond Order (in green) for Representative Bonds, Natural (in blue) and Mulliken Charges (in red) for Selected Atoms of Transition States of Four Stereochemical Modes of Addition of Enamines Derived from Proline and 3-Pentanone (2) to Nitrostyrene Using Solvent-Assisted Pathway (C₂ model) Computed at the mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

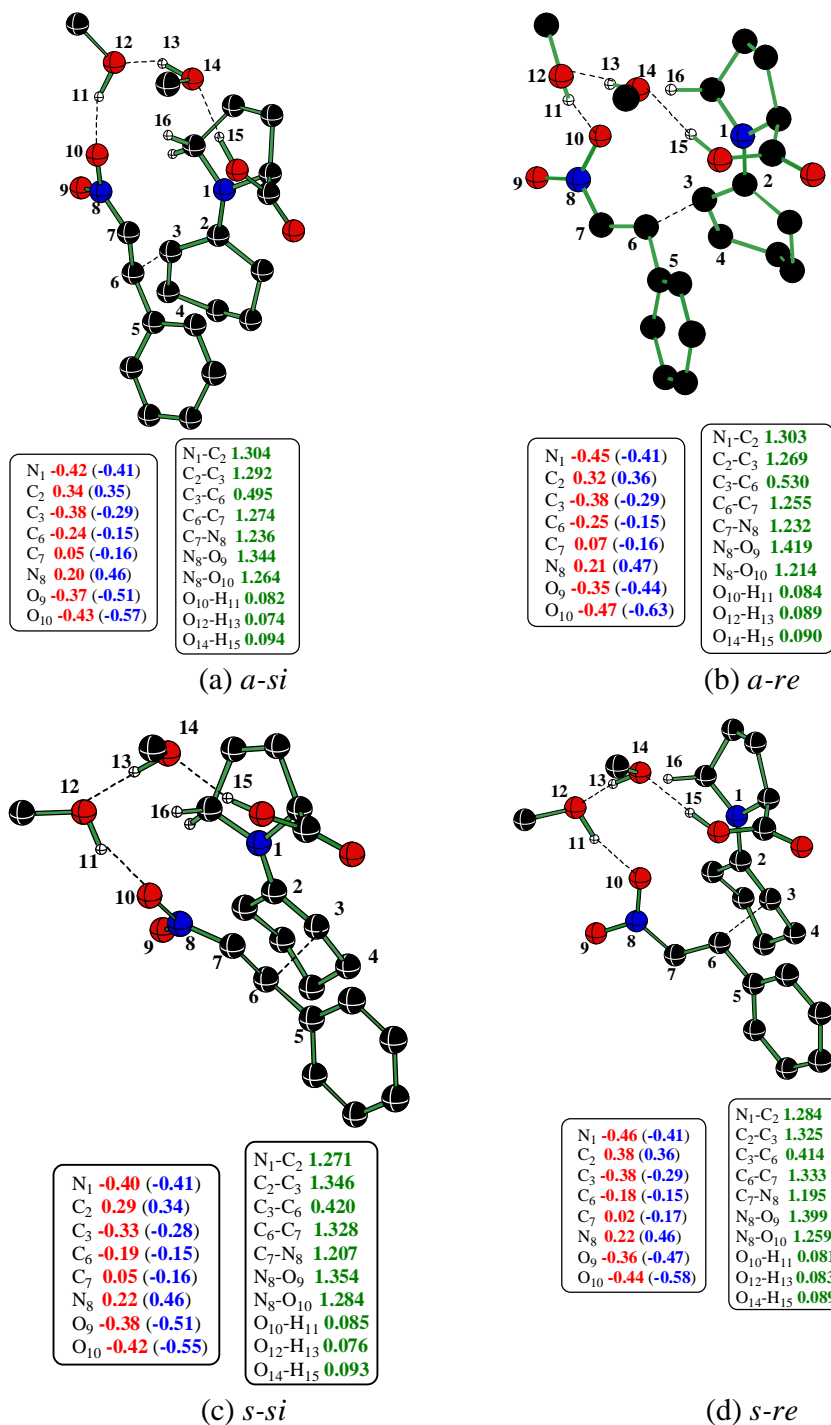


Figure S8. Bond Order (in green) for Representative Bonds, Natural (in blue) and Mulliken Charges (in red) for Selected Atoms of Transition States of Four Stereochemical Modes of Addition of Enamines Derived from Proline and Cyclohexanone (**3**) to Nitrostyrene Using Solvent-Assisted Pathway (C_2 model) Computed at the mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

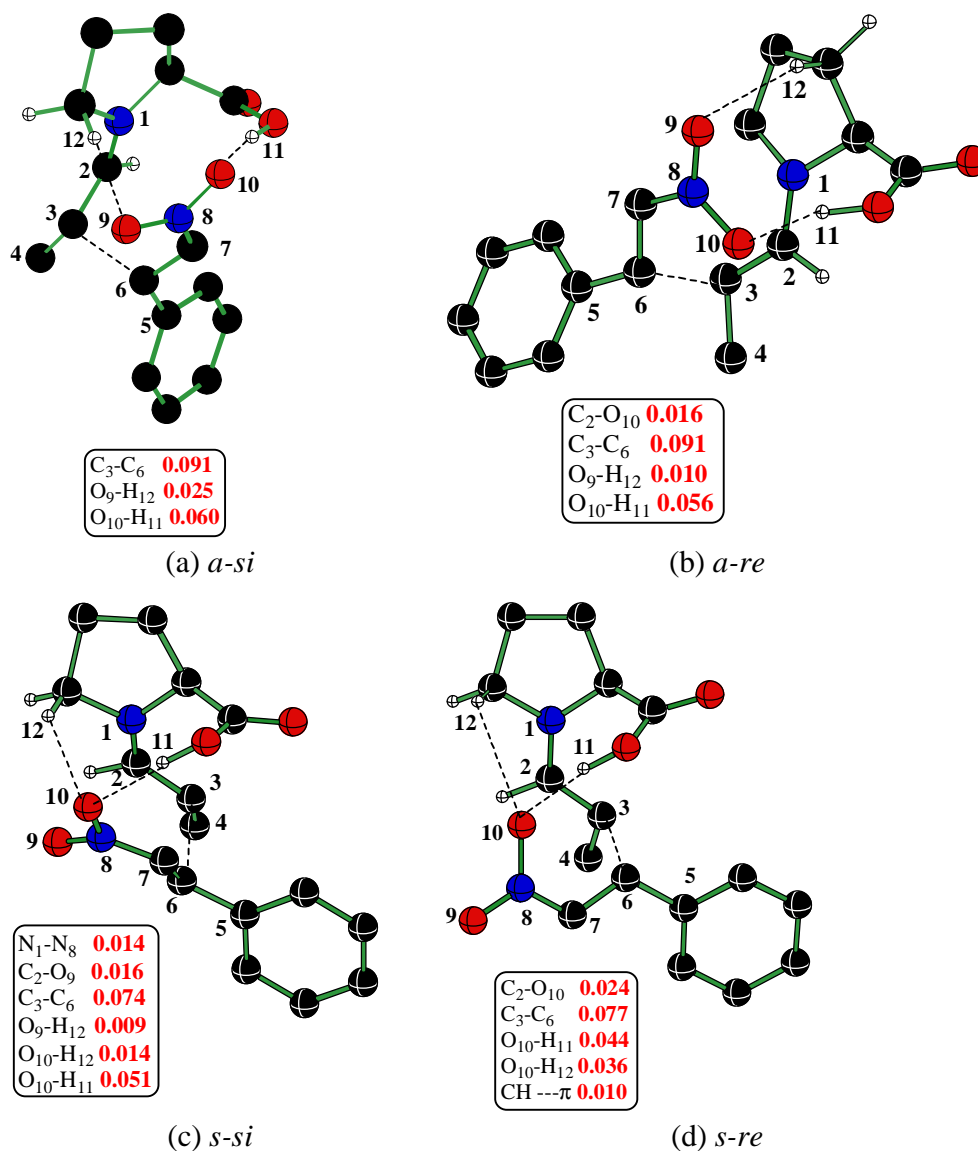


Figure S9. Summary of Electron Densities at the Bond Critical Points Obtained Using the Atoms in Molecule (AIM) Analyses on Transition States for Four Stereochemical Modes of Addition of Enamines Derived from Proline and Propanal (**1**) to Nitrostyrene Performed Using the Wave Functions Generated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory

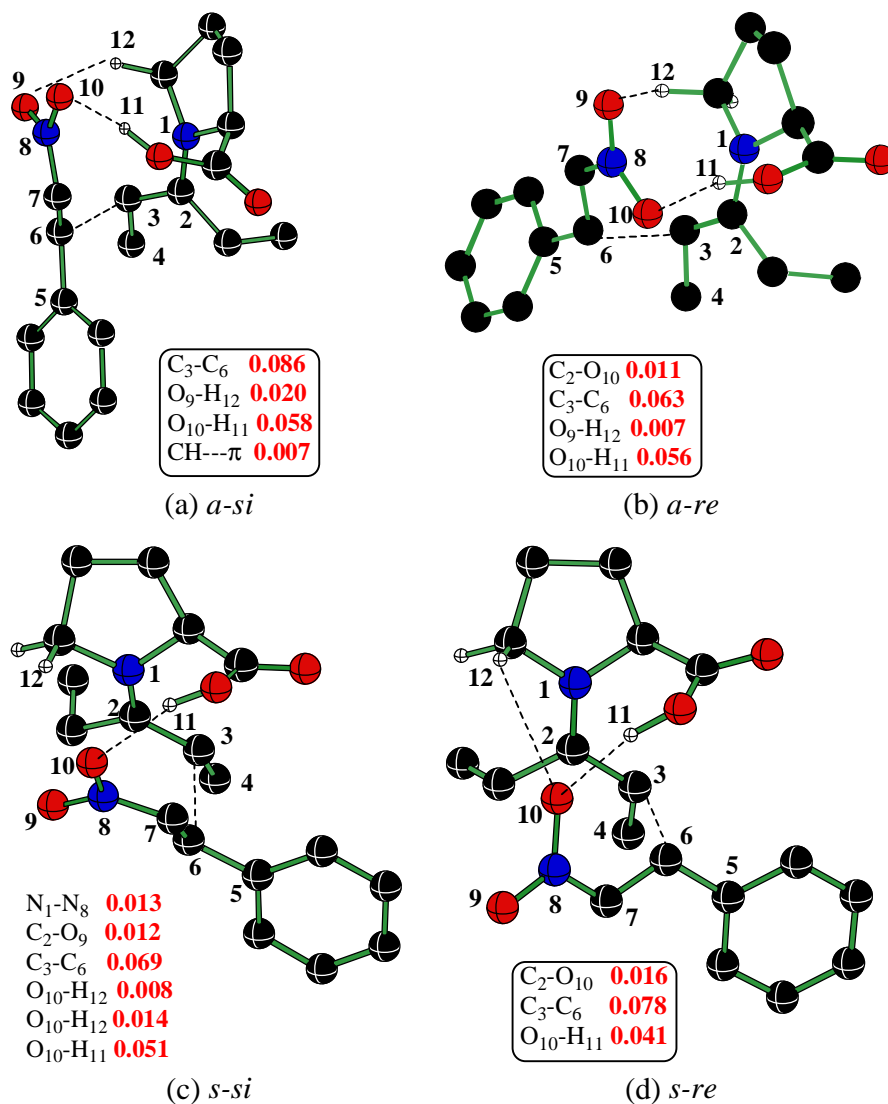


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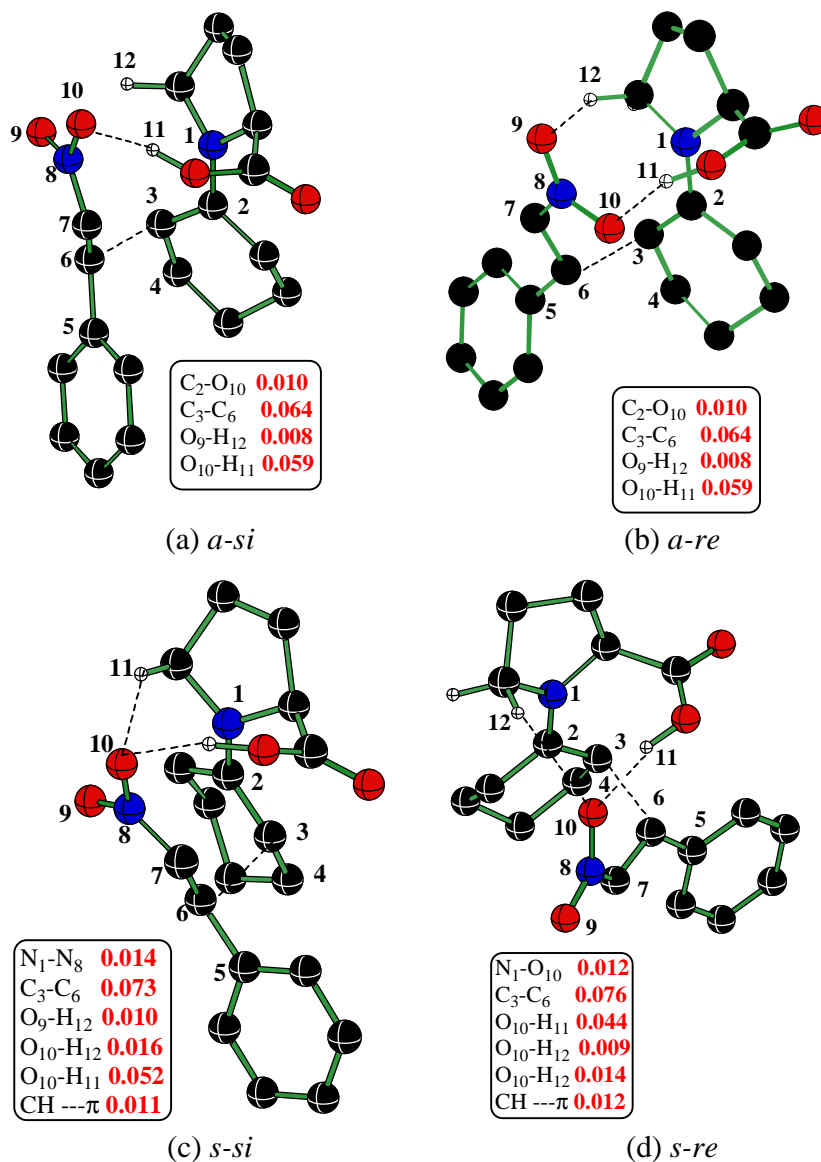


Figure S11. Summary of Electron Densities at the Bond Critical Points Obtained Using the Atoms in Molecule (AIM) Analyses on Transition States for Four Stereochemical Modes of Addition of Enamines Derived from Proline and Cyclohexanone (**3**) to Nitrostyrene Performed Using the Wave Functions Generated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory

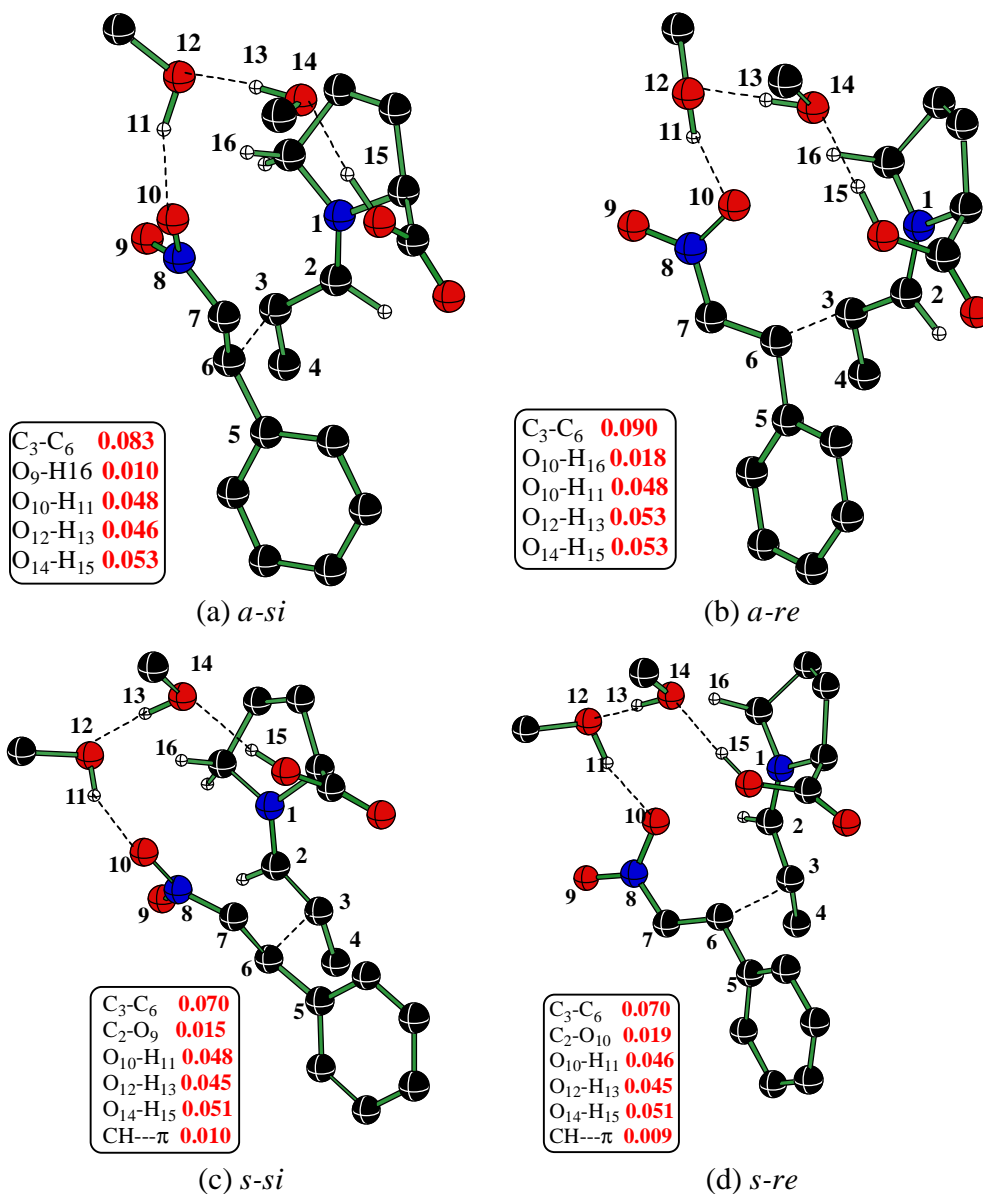


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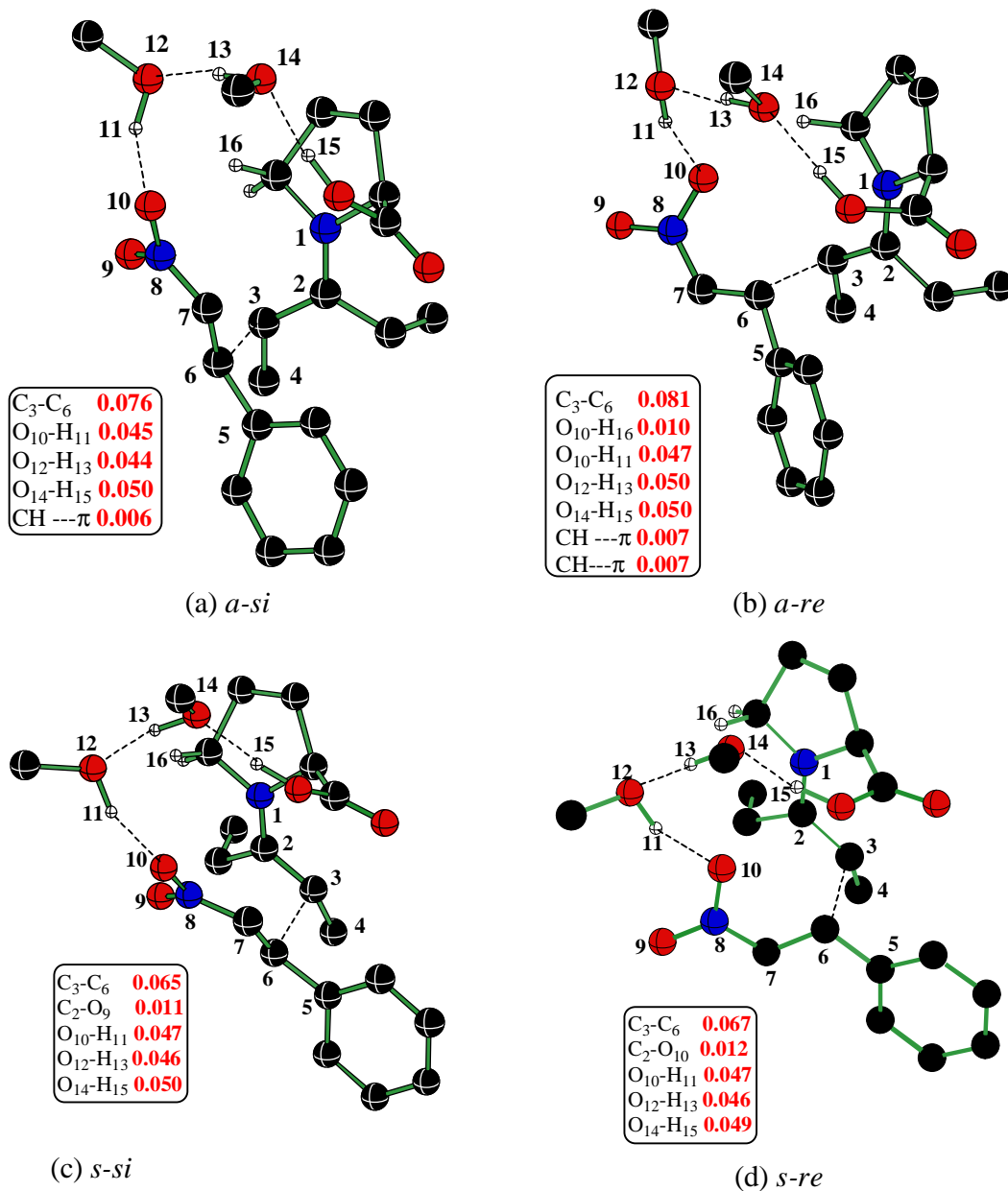


Figure S13. Summary of Electron Densities at the Bond Critical Points Obtained Using the Atoms in Molecule (AIM) Analyses on Transition States of Solvent-Assisted pathway (C₂ model) for Four Stereochemical Modes of Addition of Enamines Derived from Proline and 3-Pentanone (**2**) to Nitrostyrene Performed Using the Wave Functions Generated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory

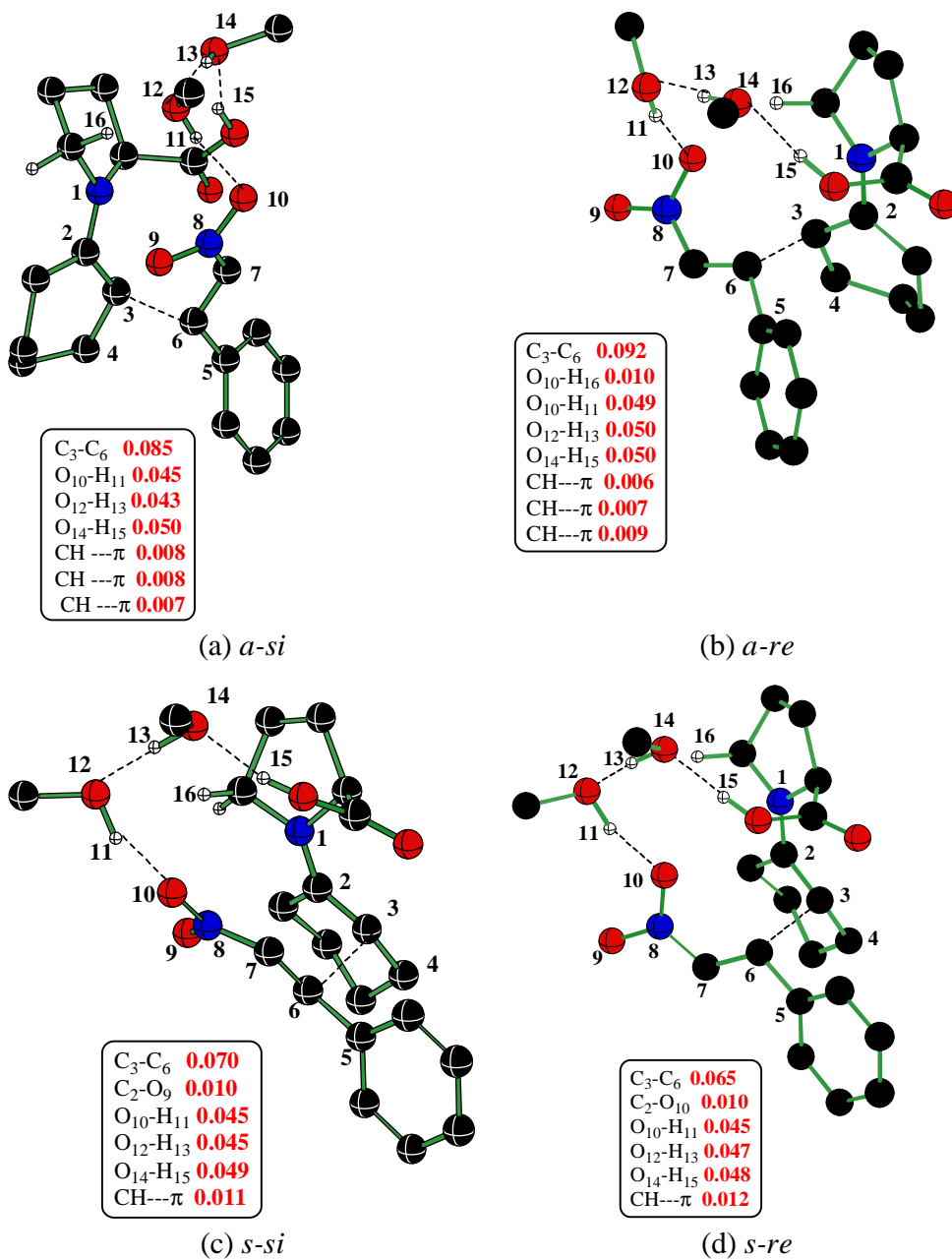
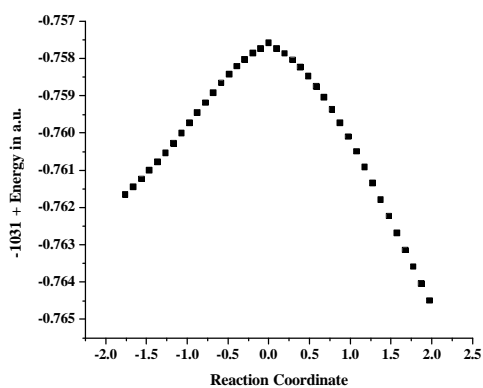
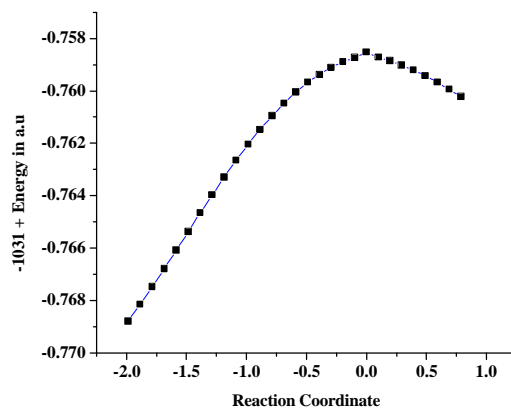


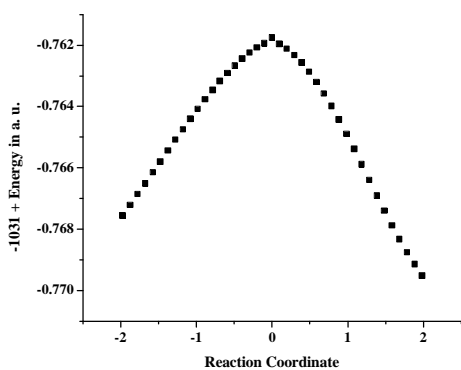
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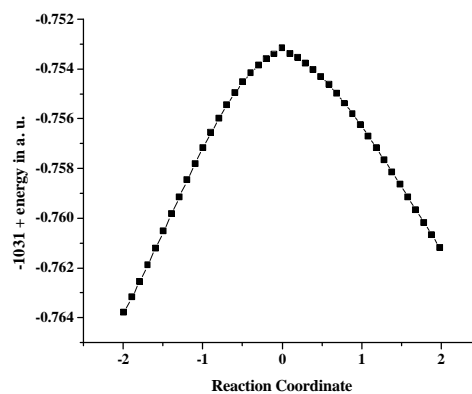
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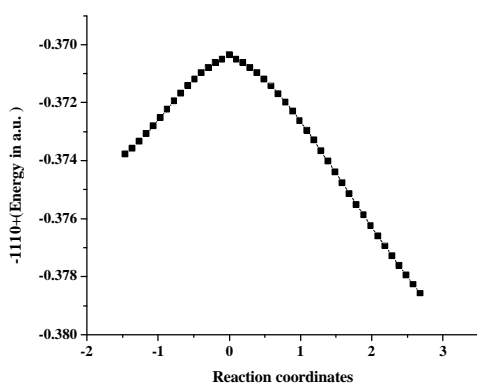


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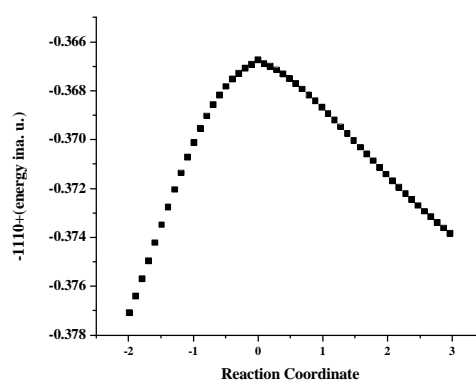


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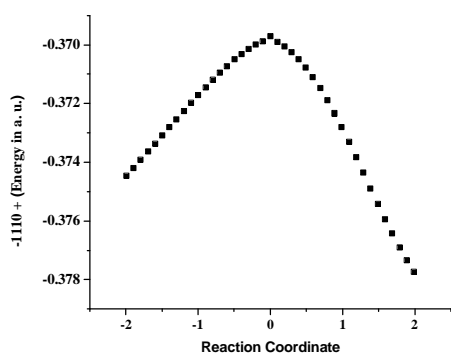
Figure S15. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Unassisted Pathway for the proline catalyzed Michael addition of Propanal (**1**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.



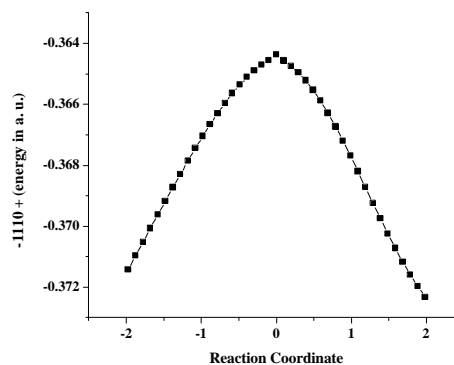
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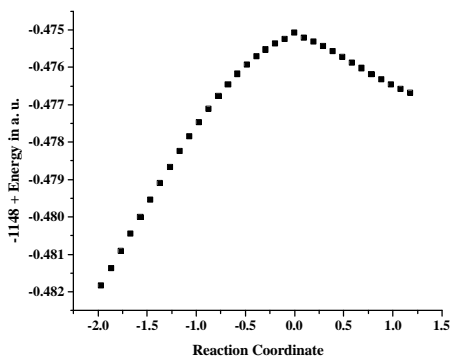


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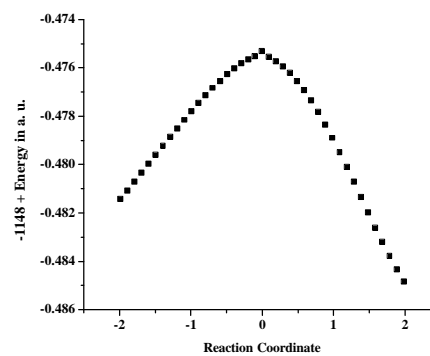


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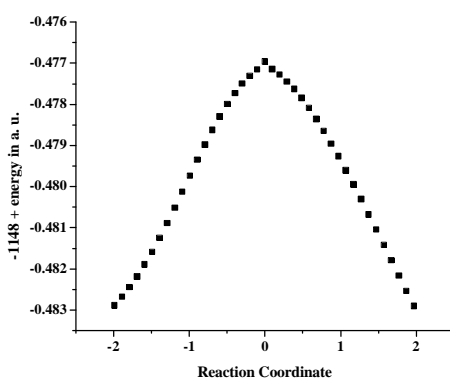
Figure S16. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Unassisted pathway for the proline catalyzed Michael addition of 3-Pentanone (**2**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.



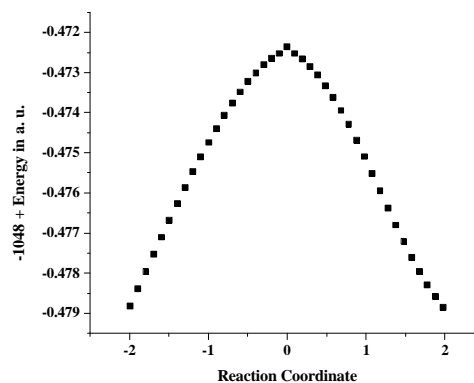
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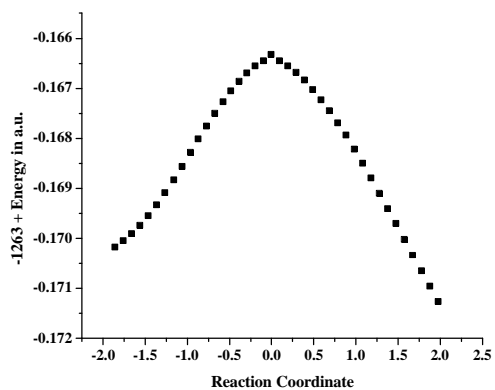


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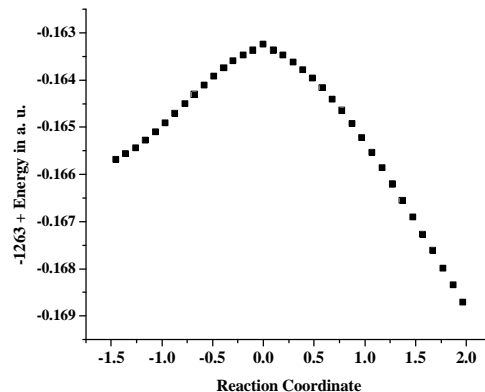


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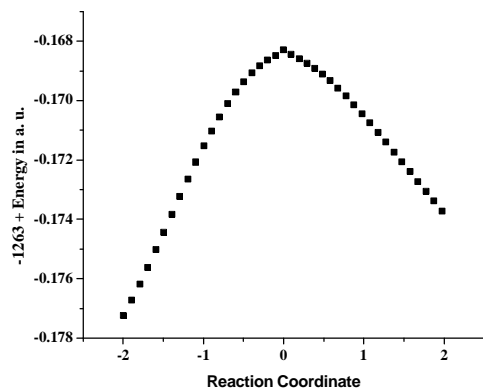
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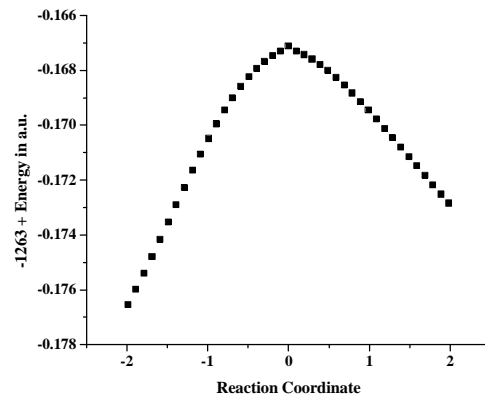
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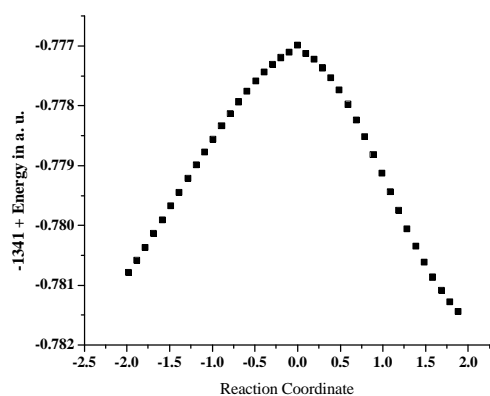


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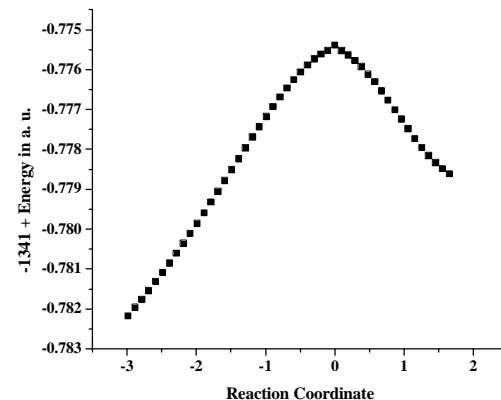


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Figure S18. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Solvent-assisted Pathway-C₂ for the proline catalyzed Michael addition of Propanal (**1**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.



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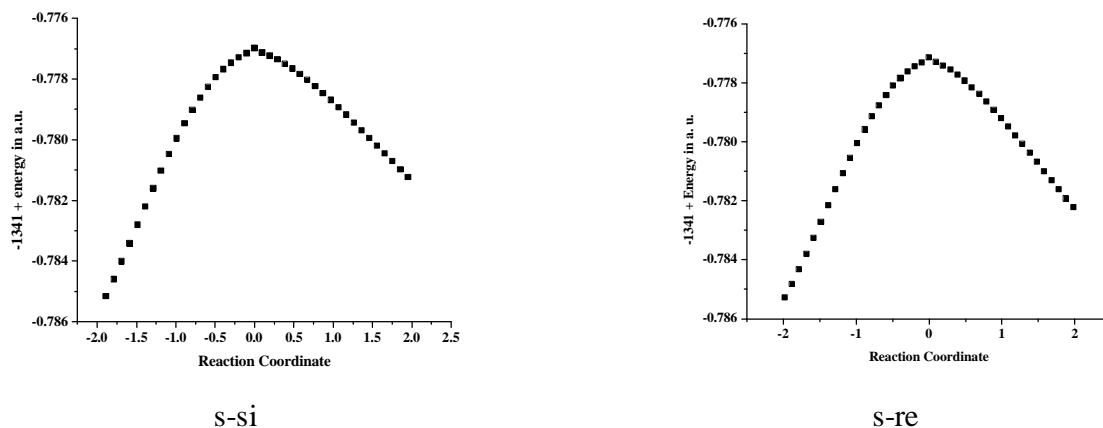


Figure S19. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Solvent-assisted Pathway (C_2 model) for the proline catalyzed Michael addition of 3-Pentanone (**2**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.

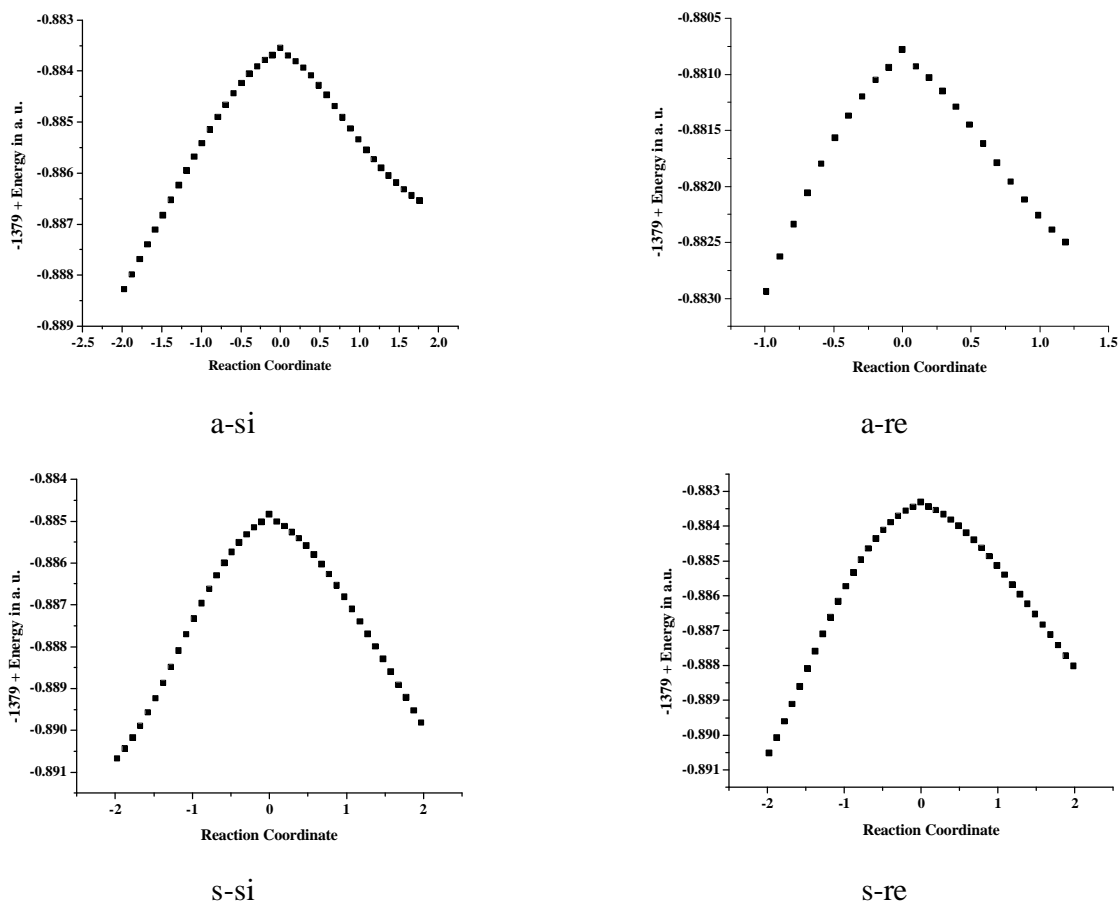
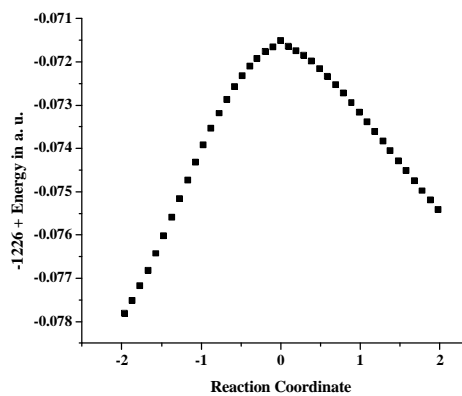
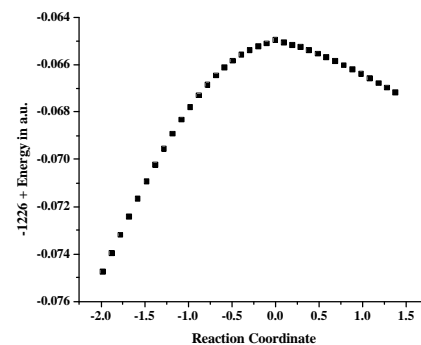


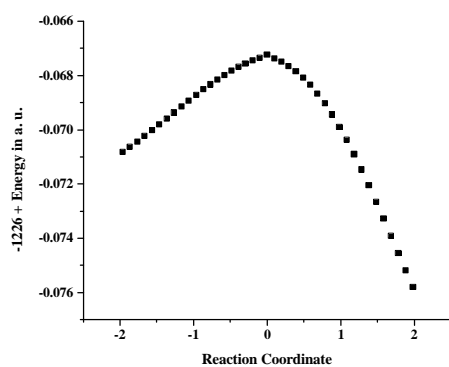
Figure S20. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Solvent-assisted Pathway (C_2 model) for the proline catalyzed Michael addition of Cyclohexanone (**3**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.



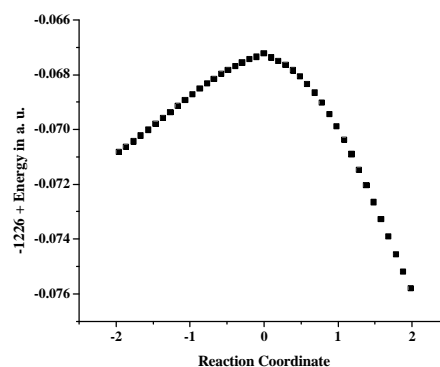
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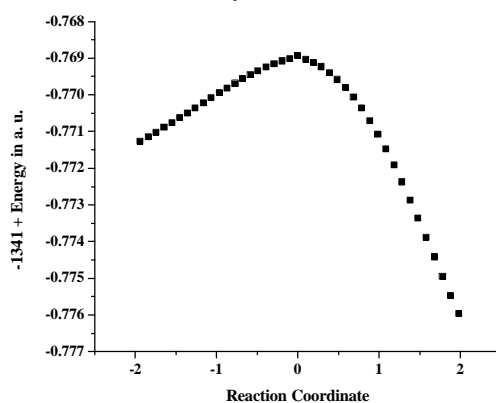


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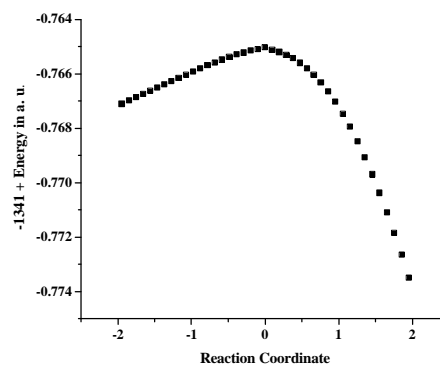


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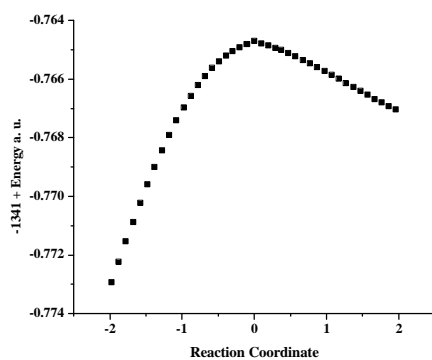
Figure S21. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Solvent-assisted Pathway (L_1 model) for the proline catalyzed Michael addition of 3-Pentatnone (**2**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.



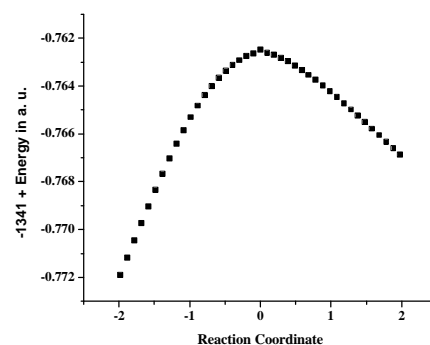
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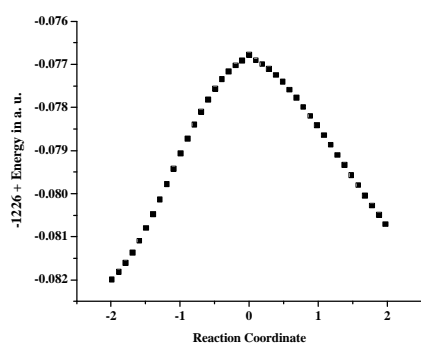


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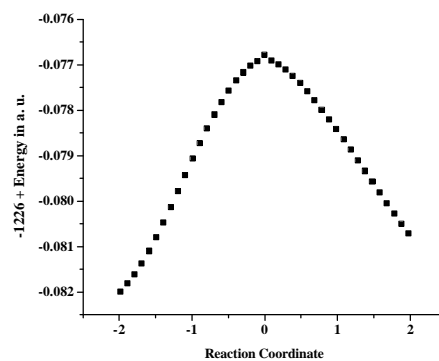


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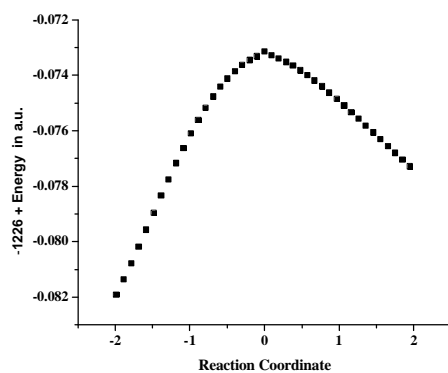
Figure S22. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Solvent-assisted Pathway (L_2 model) for the proline catalyzed Michael addition of 3-Pentatnone (**2**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.



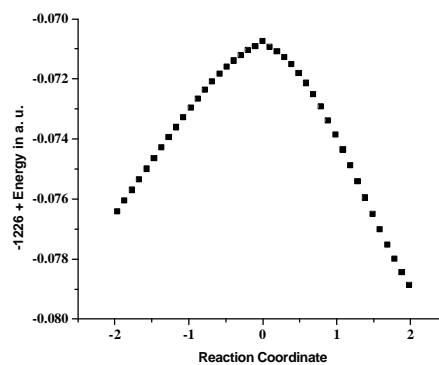
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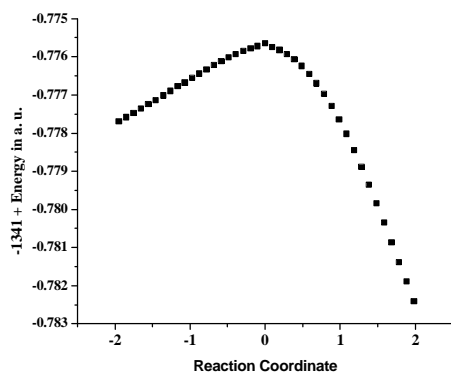


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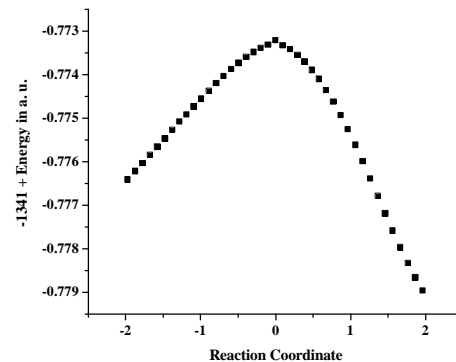


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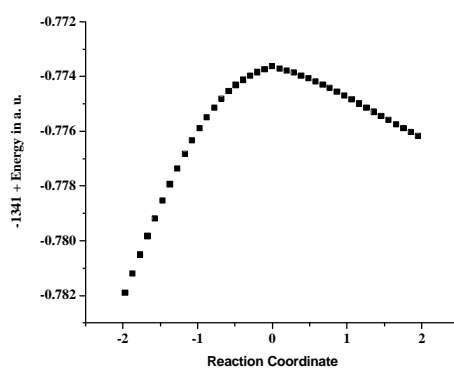
Figure S23. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Solvent-assisted Pathway (C_1 model) for the proline catalyzed Michael addition of 3-Pentatnone (**2**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.



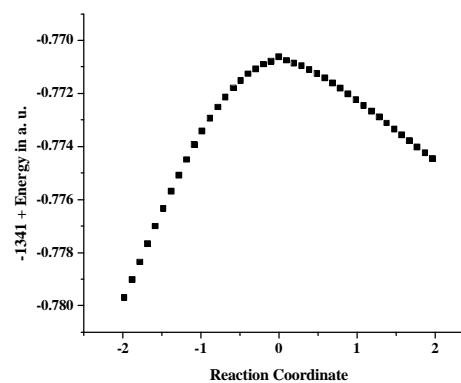
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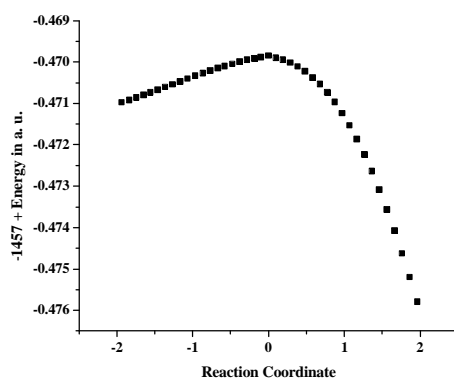


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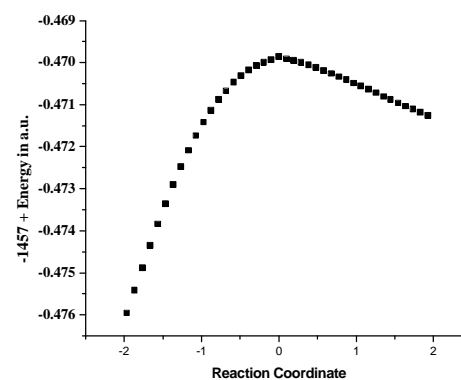


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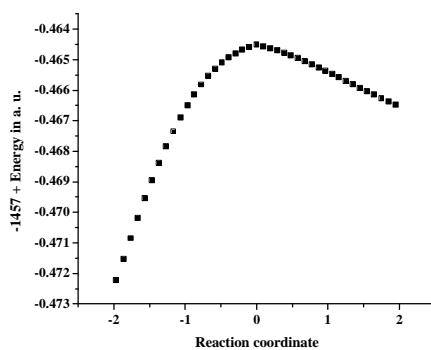
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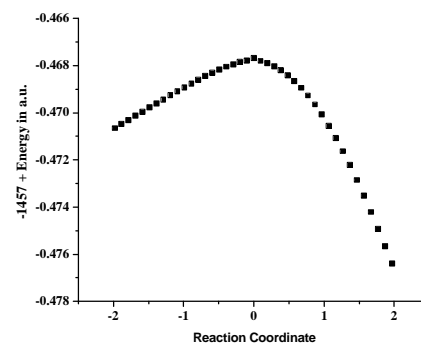
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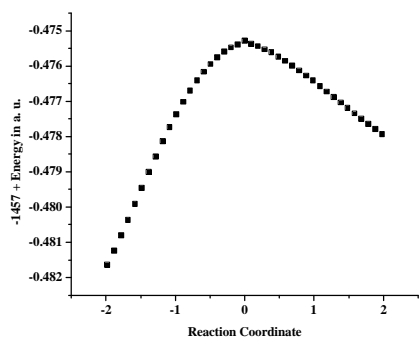


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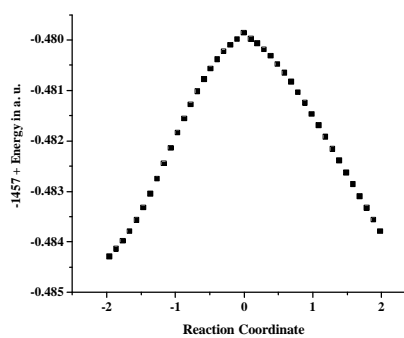


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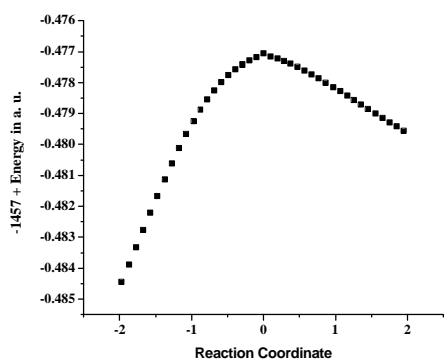
Figure S25. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Solvent-assisted Pathway (L_2C_1 model) for the proline catalyzed Michael addition of 3-Pentatnone (**2**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.



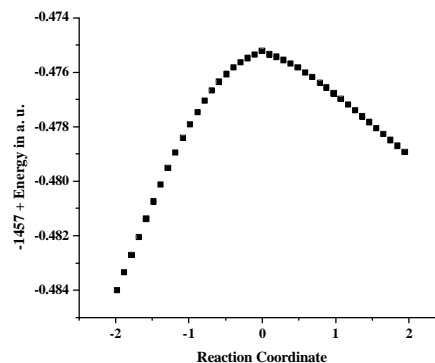
a-si



a-re

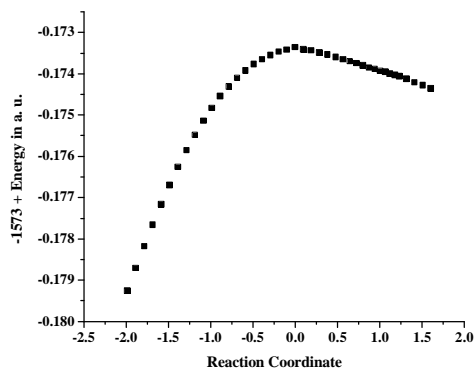


s-si

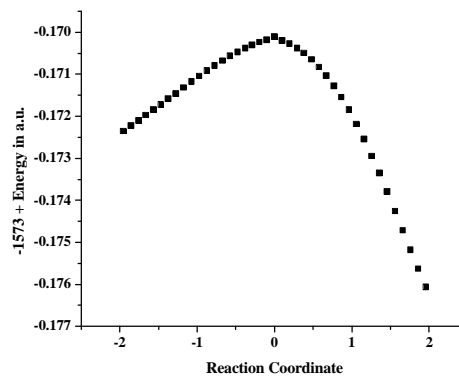


s-re

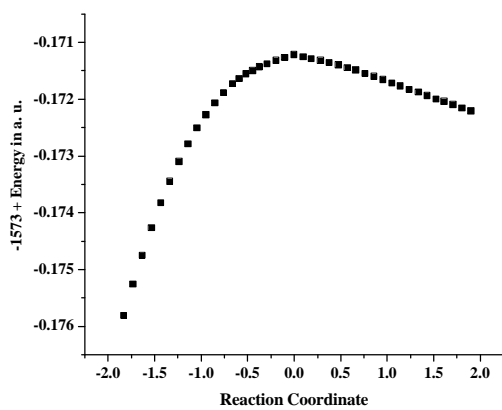
Figure S26. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Solvent-assisted Pathway (L_1C_2 model) for the proline catalyzed Michael addition of 3-Pentatnone (**2**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.



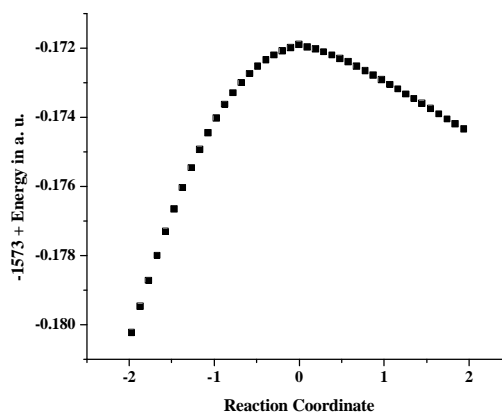
a-si



a-re



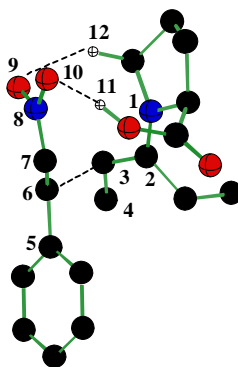
s-si



s-re

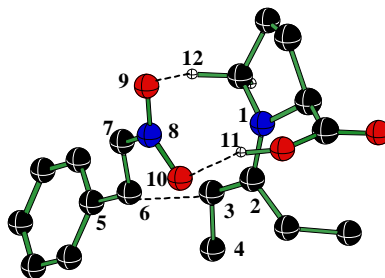
Figure S27. Intrinsic Reaction Coordinate (IRC) Plots for Transition States in the Solvent-assisted Pathway (L_2C_2 model) for the proline catalyzed Michael addition of 3-Pentanone (**2**) to Nitrostyrene Generated at the mPW1PW91/6-31G* Level of Theory.

Table S1. Selected Bond Distances (Å) and Dihedral Angles (in degrees) for *a-si* Mode of Addition of Proline Enamines Derived from 3-Pentanone (**2**) to Nitrostyrene in the Unassisted Pathway Computed at the mPW1PW91 Level of Theory in Combination with Different Basis Sets



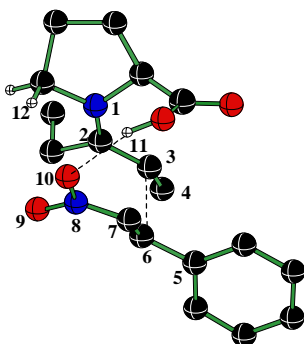
	6-31G*	6-31G**	6-31+G*	6-31+G**	mPW1K/6-31+G*
N ₁ -O ₉	3.442	3.431	3.492	3.478	3.461
C ₂ -O ₉	3.750	3.742	3.804	3.799	3.763
C ₃ -C ₆	2.003	2.025	2.033	2.055	2.065
O ₉ -H ₁₂	2.111	2.114	2.157	2.143	2.181
O ₁₀ -H ₁₁	1.609	1.544	1.625	1.555	1.659
C ₄ -C ₃ -C ₆ -C ₅	41.4	40.7	40.6	38.6	40.5

Table S2. Selected Bond Distances (Å) and Dihedral Angles (in degrees) for *a-re* Mode of Addition of Proline Enamines Derived from 3-Pentanone (**2**) to Nitrostyrene using Unassisted Pathway Computed at the mPW1PW91 Level of Theory in Combination with Different Basis Sets



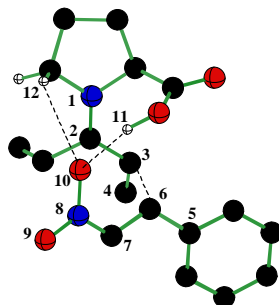
	6-31G*	6-31G**	6-31+G*	6-31+G**	mPW1K/6-31+G*
N ₁ -O ₁₀	3.073	3.038	3.076	3.074	3.044
C ₂ -O ₁₀	2.912	2.930	2.978	2.987	2.960
C ₃ -C ₆	2.155	2.164	2.164	2.175	2.168
O ₉ -H ₁₂	3.143	3.122	3.152	3.126	3.179
O ₁₀ -H ₁₁	1.611	1.566	1.603	1.556	1.621
C ₄ -C ₃ -C ₆ -C ₅	- 56.4	- 55.5	- 55.5	- 55.0	- 56.4

Table S3. Selected Bond Distances (Å) and Dihedral Angles (in degrees) for *s-si* Mode of Addition of Proline Enamines Derived from 3-Pentanone (**2**) to Nitrostyrene using Unassisted Pathway Computed at the mPW1PW91 Level of Theory in Combination with Different Basis Sets



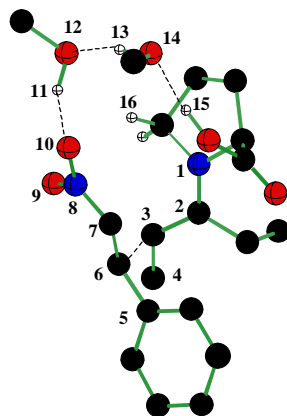
	6-31G*	6-31G**	6-31+G*	6-31+G**	mPW1K/6-31+G*
N ₁ -O ₉	2.959	2.965	2.992	2.997	2.954
C ₂ -O ₉	2.840	2.853	2.866	2.881	2.841
C ₃ -C ₆	2.106	2.119	2.117	2.132	2.128
O ₁₀ -H ₁₂	2.298	2.296	2.364	2.357	2.354
O ₁₀ -H ₁₁	1.658	1.604	1.673	1.614	1.706
C ₄ -C ₃ -C ₆ -C ₅	54.8	54.7	55.3	55.3	55.7

Table S4. Selected Bond Distances (Å) and Dihedral Angles (in degrees) for *s-re* Mode of Addition of Proline Enamines Derived from 3-Pentanone (**2**) to Nitrostyrene using Unassisted Pathway Computed at the mPW1PW91 Level of Theory in Combination with Different Basis Sets



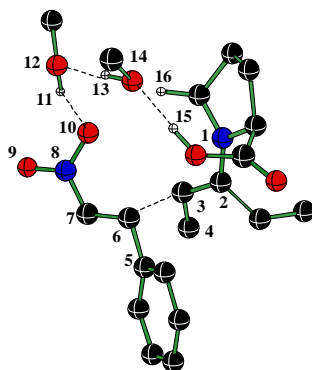
	6-31G*	6-31G**	6-31+G*	6-31+G**	mPW1K/6-31+G*
N ₁ -O ₉	2.898	2.894	2.936	2.933	2.922
C ₂ -O ₉	2.712	2.723	2.762	2.768	2.750
C ₃ -C ₆	2.053	2.062	2.077	2.084	2.092
O ₁₀ -H ₁₂	2.689	2.656	2.758	2.742	2.737
O ₁₀ -H ₁₁	1.716	1.669	1.725	1.687	1.755
C ₄ -C ₃ -C ₆ -C ₅	51.0	50.5	50.1	50.0	51.1

Table S5. Selected Bond Distances (Å) and Dihedral Angles (in degrees) for *a-si* Mode of Addition of Proline Enamines Derived from 3-Pentanone (**2**) to Nitrostyrene using Solvent-Assisted Pathway (C_2 model) Computed at the mPW1PW91 Level of Theory in Combination with Different Basis Sets



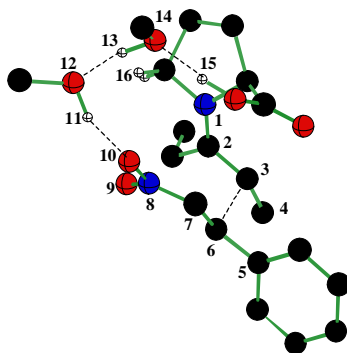
	6-31G*	6-31G**	6-31+G*	6-31+G**	mPW1K/6-31+G*
N ₁ -O ₉	3.794	3.782	3.934	3.895	3.919
C ₂ -O ₉	3.910	3.903	3.998	3.977	3.973
C ₃ -C ₆	2.055	2.061	2.089	2.094	2.111
O ₉ -H ₁₆	2.653	2.643	2.838	2.806	2.848
O ₁₀ -H ₁₁	1.703	1.673	1.706	1.670	1.730
O ₁₂ -H ₁₃	1.704	1.679	1.709	1.671	1.728
O ₁₄ -H ₁₅	1.661	1.625	1.685	1.642	1.699
C ₄ -C ₃ -C ₆ -C ₅	55.5	55.1	58.7	57.4	59.3

Table S6. Selected Bond Distances (Å) and Dihedral Angles (in degrees) for *a-re* Mode of Addition of Proline Enamines Derived from 3-Pentanone (**2**) to Nitrostyrene using Solvent-Assisted Pathway (C_2 model) Computed at the mPW1PW91 Level of Theory in Combination of Different Basis Sets.



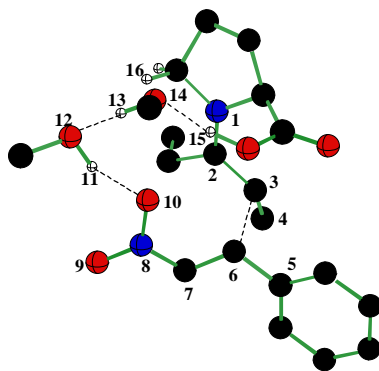
	6-31G*	6-31G**	6-31+G*	6-31+G**	mPW1K/6-31+G*
N ₁ -O ₉	3.804	3.808	3.888	3.881	3.868
C ₂ -O ₉	3.906	3.903	3.962	3.965	3.940
C ₃ -C ₆	2.024	2.038	2.061	2.072	2.075
O ₉ -H ₁₆	2.424	2.432	2.584	2.532	2.549
O ₁₀ -H ₁₁	1.669	1.636	1.694	1.663	1.708
O ₁₂ -H ₁₃	1.661	1.625	1.681	1.644	1.693
O ₁₄ -H ₁₅	1.660	1.616	1.684	1.635	1.694
C ₄ -C ₃ -C ₆ -C ₅	58.4	59.1	60.1	60.0	60.5

Table S7. Selected Bond Distances (Å) and Dihedral Angles (in degrees) for *s-si* Mode of Addition of Proline Enamines Derived from 3-Pentanone (**2**) to Nitrostyrene using Solvent-Assisted Pathway (C_2 model) Computed at the mPW1PW91 Level of Theory in Combination of Different Basis Sets.

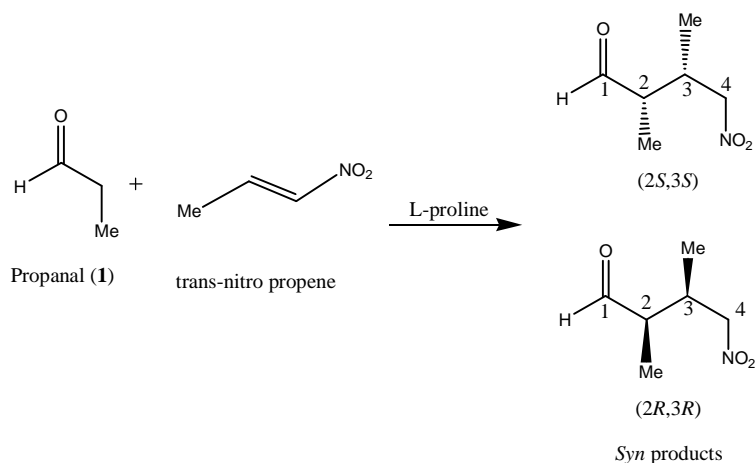


	6-31G*	6-31G**	6-31+G*	6-31+G**	mPW1K/6-31+G*
N ₁ -O ₉	3.119	3.120	3.170	3.175	3.104
C ₂ -O ₉	2.887	2.891	2.921	2.928	2.896
C ₃ -C ₆	2.135	2.138	2.146	2.151	2.154
O ₉ -H ₁₆	3.036	3.033	3.134	3.140	3.038
O ₁₀ -H ₁₁	1.693	1.657	1.698	1.661	1.717
O ₁₂ -H ₁₃	1.692	1.666	1.693	1.661	1.713
O ₁₄ -H ₁₅	1.662	1.630	1.688	1.644	1.707
C ₄ -C ₃ -C ₆ -C ₅	56.1	56.1	56.9	57.0	56.8

Table S8. Selected Bond Distances (Å) and Dihedral Angles (in degrees) for *s-re* Mode of Addition of Proline Enamines Derived from 3-Pentanone (**2**) to Nitrostyrene using Solvent-Assisted Pathway (C_2 model) Computed at the mPW1PW91 Level of Theory in Combination of Different Basis Sets.



	6-31G*	6-31G**	6-31+G*	6-31+G**	mPW1K/6-31+G*
N ₁ -O ₉	3.116	3.111	3.199	3.195	3.166
C ₂ -O ₁₀	2.829	2.829	2.902	2.904	2.884
C ₃ -C ₆	2.121	2.125	2.130	2.134	2.147
O ₁₀ -H ₁₆	3.111	3.117	3.193	3.173	3.132
O ₁₀ -H ₁₁	1.680	1.644	1.700	1.671	1.761
O ₁₂ -H ₁₃	1.694	1.663	1.698	1.664	1.711
O ₁₄ -H ₁₅	1.673	1.635	1.694	1.644	1.708
C ₄ -C ₃ -C ₆ -C ₅	58.0	58.1	59.3	59.2	59.5



Scheme S1. Michael addition of propanal (**1**) to nitropropene (Model electrophile).

Table S9. Activation Parameter ^a (in kcal/mol) at the various levels of theory for the Michael Reaction between Proline Enamines Derived propanal (**1**) with trans-nitro propene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using Transition states in the Unassisted Pathway

Model	Mode of approach				%de	%ee ^c
	<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>		
ΔH^\ddagger (gas-phase)						
<i>M1</i>	11.8(2.4)	10.5(1.1)	9.4(0.0)	13.8(4.4)	<i>syn</i> (97)	2R,3R (73)
<i>M2</i>	13.6(1.8)	12.1(0.3)	11.8(0.0)	15.8(4.0)	<i>syn</i> (90)	2R,3R (24)
<i>M3</i>	15.3(1.7)	13.6(0.0)	13.8(0.2)	16.2(2.4)	<i>syn</i> (89)	2S,3S (17)
<i>M4</i>	14.1(2.0)	12.3(0.2)	12.1(0.0)	16.4(4.3)	<i>syn</i> (93)	2R,3R (17)
ua <i>M5</i>	16.9(2.1)	14.8(0.1)	14.7(0.0)	18.2(3.5)	<i>syn</i> (94)	2R,3R (8)
<i>M6</i>	19.1(2.3)	16.8(0.0)	17.4(0.6)	19.1(2.3)	<i>syn</i> (97)	2S,3S (47)
<i>M7</i>	15.8(3.0)	13.6(0.8)	12.8(0.0)	17.9(5.1)	<i>syn</i> (99)	2R,3R (59)
<i>M8^b</i>	17.8(2.9)	15.8(0.9)	14.9(0.0)	19.3(4.4)	<i>syn</i> (99)	2R,3R (59)
ΔG^\ddagger (gas-phase)						
<i>M1</i>	27.4(1.9)	25.5(0.0)	25.5(0.0)	28.6(3.1)	<i>syn</i> (92)	Nil
<i>M2</i>	29.3(2.2)	27.1(0.0)	27.7(0.6)	30.4(3.3)	<i>syn</i> (95)	2S,3S (47)
<i>M3</i>	30.9(2.4)	28.5(0.0)	29.6(1.1)	30.8(2.3)	<i>syn</i> (97)	2S,3S (73)
<i>M4</i>	30.1(2.8)	27.3(0.0)	28.1(0.8)	31.1(3.8)	<i>syn</i> (98)	2S,3S (59)
ua <i>M5</i>	32.9(3.1)	29.8(0.0)	30.8(1.0)	33.2(3.4)	<i>syn</i> (99)	2S,3S (67)
<i>M6</i>	35.1(3.3)	31.8(0.0)	33.6(1.8)	34.2(2.4)	<i>syn</i> (99)	2S,3S (91)
<i>M7</i>	32.5(3.1)	29.4(0.0)	29.7(0.5)	33.4(4.0)	<i>syn</i> (99)	2S,3S (40)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition states. [b] The activation energy (ΔE^\ddagger) computed at the B2PLYP/6-31G**//mPW1PW91/6-31G* [c] See Scheme S1 for the numbering of stereocenters.

M1 : mPW1PW91/6-31G**//6-31G*

M2 : mPW1PW91/6-311G**//6-31G*

M3 : mPW1PW91/6-311+G**//6-31G*

M4 : B3LYP/6-31G**//6-31G*

M5 : B3LYP/6-311G**//6-31G*

M6 : B3LYP/6-311+G**//6-31G*

M7 : CBS-4M

M8 : B2PLYP/6-31G**//mPW1PW91/6-31G*

Table S10. The Computed Activation Parameters ^a (in kcal/mol) at the mPW1PW91 level of theory for the Michael Reaction between Proline Enamines Derived from Pentanone (2) with Nitrostyrene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using the Transition States in the Unassisted pathway

	Mode of approach				%de	%ee ^b
	<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>		
	ΔH^\ddagger (gas-phase)					
<i>M1</i>	9.2(0.9)	11.2(2.9)	8.3(0.0)	11.8(3.6)	<i>Syn</i> (64)	4R,5S (98)
<i>M2</i>	10.8(0.7)	12.6(2.5)	10.1(0.0)	12.7(2.6)	<i>Syn</i> (53)	4R,5S (97)
<i>M3</i>	11.5(0.0)	13.2(2.7)	11.8(0.2)	13.1(2.6)	<i>Anti</i> (16)	4S,5S (97)
<i>M4</i>	10.8(0.6)	12.5(2.5)	10.2(0.0)	12.8(2.6)	<i>Syn</i> (46)	4R,5S (97)
<i>M5</i>	8.4(0.8)	10.8(3.2)	7.6(0.0)	11.4(3.8)	<i>Syn</i> (58)	4R,5S (99)
<i>M6</i>	10.6(0.7)	12.4(2.5)	9.9(0.0)	12.5(2.6)	<i>Syn</i> (53)	4R,5S (97)
<i>M7</i>	10.3(0.0)	12.3(2.0)	11.5(1.2)	13.1(2.8)	<i>Syn</i> (76)	4R,5S (98)
<i>M8</i>	9.9(0.0)	11.7(1.8)	9.9(0.0)	12.6(2.7)	<i>Nil</i>	<i>Nil</i>
<i>M9</i>	12.3(0.0)	13.9(1.6)	12.6(0.3)	13.8(1.5)	<i>Anti</i> (24)	4S,5S (85)
<i>M10</i>	9.7(0.9)	11.7(2.9)	8.8(0.0)	12.1(3.3)	<i>Syn</i> (64)	4R,5S (98)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition states. [b] See scheme 2 for numbering of stereocenters.

M1 : mPW1PW91/6-31G**//6-31G*

M2 : mPW1PW91/6-311G**//6-31G*

M3 : mPW1PW91/6-31+G**//6-31+G*

M4 : mPW1PW91/6-311G**//6-31+G*

M5 : mPW1PW91/6-31G**//6-31G**

M6 : mPW1PW91/6-311G**//6-31G**

M7 : mPW1PW91/6-31+G**//6-31+G**

M8 : mPW1PW91/6-311G**//6-31+G**

M9 : mPW1PW91/6-311+G**//6-31G*

M10 : mPW1PW91/cc-PVDZ//6-31G*

Table S11. The Computed Activation Parameters ^a (in kcal/mol) at the mPW1PW91 level of theory for the Michael Reaction between Proline Enamines Derived from Pentanone (2) with Nitrostyrene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using the Transition States in the Unassisted pathway

	Mode of approach				%de	%ee ^b
	<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>		
	ΔG^\ddagger (gas-phase)					
<i>M1</i>	26.1(0.2)	26.7(0.8)	25.9(0.0)	28.3(2.4)	<i>Syn</i> (64)	4R,5S (58)
<i>M2</i>	27.7(0.0)	28.1(0.4)	27.7(0.0)	29.2(1.5)	<i>Nil</i>	<i>Nil</i>
<i>M3</i>	28.1(0.0)	28.5(0.4)	29.0(0.9)	29.4(1.3)	<i>Anti</i> (16)	4S,5S (80)
<i>M4</i>	27.3(0.0)	27.8(0.5)	27.3(0.0)	29.1(1.8)	<i>Nil</i>	<i>Nil</i>
<i>M5</i>	25.4(0.2)	26.4(1.2)	25.2(0.0)	27.9(2.7)	<i>Syn</i> (16)	4R,5S (76)
<i>M6</i>	27.6(0.1)	27.9(0.4)	27.5(0.0)	29.1(1.6)	<i>Syn</i> (08)	4R,5S (32)
<i>M7</i>	27.2(0.0)	27.9(0.7)	28.7(1.6)	29.3(2.1)	<i>Anti</i> (53)	4S,5S (94)
<i>M8</i>	26.7(0.0)	27.3(0.6)	27.1(0.3)	28.8(2.1)	<i>Anti</i> (24)	4S,5S (94)
<i>M9</i>	29.2(0.0)	29.4(0.2)	30.2(1.0)	30.4(1.2)	<i>Anti</i> (16)	4S,5S (77)
<i>M10</i>	26.7(0.3)	27.2(0.8)	26.4(0.0)	28.7(2.3)	<i>Syn</i> (24)	4R,5S (59)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition states. [b] See scheme 2 for numbering of stereocenters.

M1 : mPW1PW91/6-31G**//6-31G*

M2 : mPW1PW91/6-311G**//6-31G*

M3 : mPW1PW91/6-31+G**//6-31+G*

M4 : mPW1PW91/6-311G**//6-31+G*

M5 : mPW1PW91/6-31G**//6-31G**

M6 : mPW1PW91/6-311G**//6-31G**

M7 : mPW1PW91/6-31+G**//6-31+G**

M8 : mPW1PW91/6-311G**//6-31+G**

M9 : mPW1PW91/6-311+G**//6-31G*

M10 : mPW1PW91/cc-PVDZ//6-31G*

Table S12. The Computed Activation Parameters ^a (in kcal/mol) at the mPW1PW91 level of theory for the Michael Reaction between Proline Enamines Derived from Pentanone (2) with Nitrostyrene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using the Transition States in the Unassisted pathway

	Mode of approach				%de	%ee ^b
	<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>		
	ΔE^\ddagger (solvent-phase)					
<i>M1</i>	7.9(0.0)	9.4(1.5)	10.3(2.4)	10.6(2.7)	<i>Anti</i> (85)	4S,5S (97)
<i>M2</i>	9.2(0.0)	10.4(1.2)	12.0(2.8)	11.4(2.2)	<i>Anti</i> (76)	4S,5S (95)
<i>M3</i>	9.7(0.0)	10.5(0.7)	13.4(3.7)	11.2(1.5)	<i>Anti</i> (53)	4S,5S (99)
<i>M4</i>	9.1(0.0)	9.9(0.8)	11.7(2.6)	11.3(2.2)	<i>Anti</i> (59)	4S,5S (95)
<i>M5</i>	7.6(0.0)	9.0(1.4)	9.8(2.2)	10.5(2.9)	<i>Anti</i> (82)	4S,5S (76)
<i>M6</i>	9.5(0.0)	10.3(0.8)	12.0(2.5)	11.5(2.0)	<i>Anti</i> (59)	4S,5S (93)
<i>M7</i>	9.5(0.0)	10.6(1.1)	13.3(3.8)	11.3(1.8)	<i>Anti</i> (72)	4S,5S (90)
<i>M8</i>	9.1(0.0)	10.2(1.1)	11.7(2.6)	11.3(2.2)	<i>Anti</i> (72)	4S,5S (95)
<i>M9</i>	10.5(0.0)	11.6(1.1)	14.5(4.0)	12.1(1.6)	<i>Anti</i> (72)	4S,5S (87)
<i>M10</i>	8.2(0.0)	9.7(1.5)	10.5(2.3)	10.9(2.7)	<i>Anti</i> (85)	4S,5S (97)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition state. [b] See Scheme 2 for numbering of the stereocenters.

M1 : PCM/mPW1PW91/6-31G**//6-31G*

M2 : PCM/mPW1PW91/6-311G**//6-31G*

M3 : PCM/mPW1PW91/6-31+G**//6-31+G*

M4 : PCM/mPW1PW91/6-311G**//6-31+G*

M5 : PCM/mPW1PW91/6-31G**//6-31G**

M6 : PCM/mPW1PW91/6-311G**//6-31G**

M7 : PCM/mPW1PW91/6-31+G**//6-31+G**

M8 : PCM/mPW1PW91/6-311G**//6-31+G**

M9 : PCM/mPW1PW91/6-311+G**//6-31G*

M10 : PCM/mPW1PW91/cc-PVDZ//6-31G*

Table S13. The Computed Activation Parameters^a (in kcal/mol) at the mPW1PW91 level of theory for the Michael Reaction between Proline Enamines Derived from Pentanone (2) with Nitrostyrene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using the Transition States Model-C₂ in the Solvent-assisted pathway

	Mode of approach				%de	%ee ^b
	<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>		
	ΔH^\ddagger (gas-phase)					
<i>M1</i>	- 13.5(0.8)	- 12.7(2.5)	- 15.2(0.0)	- 15.0(0.2)	<i>Syn</i> (16)	4R,5S (97)
<i>M2</i>	- 11.5(1.2)	- 11.2(1.5)	- 12.8(0.0)	- 12.7(0.1)	<i>Syn</i> (08)	4R,5S (85)
<i>M3^c</i>	- 6.0(1.2)	- 7.2(0.3)	- 6.7(0.8)	- 7.5(0.0)	<i>Anti</i> (24)	4R,5R (76)
<i>M4^c</i>	- 11.1(1.4)	- 11.6(0.9)	- 12.5(0.0)	- 12.3(0.2)	<i>Syn</i> (16)	4R,5S (64)
<i>M5</i>	- 14.0(1.6)	- 13.2(2.4)	- 15.6(0.0)	- 15.4(0.2)	<i>Syn</i> (16)	4R,5S (96)
<i>M6</i>	- 11.8(0.3)	- 11.5(0.6)	- 12.1(0.0)	- 12.0(0.1)	<i>Syn</i> (08)	4R,5S (46)
<i>M7^c</i>	- 6.2(1.1)	- 6.7(0.6)	- 6.8(0.5)	- 7.3(0.0)	<i>Anti</i> (40)	4R,5R (73)
<i>M8^c</i>	- 11.9(1.3)	- 11.3(1.9)	- 13.2(0.0)	-12.9(0.3)	<i>Syn</i> (24)	4R,5S (92)
<i>M9</i>	- 4.7(1.1)	- 5.6(0.2)	- 5.1(0.7)	- 5.8(0.0)	<i>Anti</i> (16)	4R,5R (72)
<i>M10</i>	-14.5(1.9)	-13.7(2.7)	-16.4(0.0)	-15.9(0.5)	<i>Syn</i> (39)	4R,5S (97)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition states. [b] See scheme 2 for numbering of stereocenters. [c] Thermal corrections to enthalpy are taken from the frequency calculation at the mPW1PW91/6-31G*.

M1 : mPW1PW91/6-31G**//6-31G*

M2 : mPW1PW91/6-311G**//6-31G*

M3 : mPW1PW91/6-31+G**//6-31+G*

M4 : mPW1PW91/6-311G**//6-31+G*

M5 : mPW1PW91/6-31G**//6-31G**

M6 : mPW1PW91/6-311G**//6-31G**

M7 : mPW1PW91/6-31+G**//6-31+G**

M8 : mPW1PW91/6-311G**//6-31+G**

M9 : mPW1PW91/6-311+G**//6-31G*

M10 : mPW1PW91/cc-pVDZ//6-31G*

Table S14. The Computed Activation Parameters^a (in kcal/mol) at the mPW1PW91 level of theory for the Michael Reaction between Proline Enamine Derived from Pentanone (2) with Nitrostyrene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using the Transition States Model-C₂ in the Solvent-assisted pathway

	Mode of approach				%de	%ee ^b
	<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>		
	ΔG^\ddagger (gas-phase)					
<i>M1</i>	23.4(1.2)	22.9(0.7)	22.6(0.4)	22.2(0.0)	<i>Anti</i> (32)	4R,5R (77)
<i>M2</i>	25.4(1.0)	24.5(0.1)	25.0(0.5)	24.4(0.0)	<i>Anti</i> (08)	4R,5R(68)
<i>M3^c</i>	30.4(1.0)	29.4(0.0)	30.7(1.3)	29.7(0.3)	<i>Syn</i> (24)	4S,5R (79)
<i>M4^c</i>	25.2(0.2)	25.0(0.0)	25.0(0.0)	24.9(0.1)	<i>Nil</i>	<i>Nil</i>
<i>M5</i>	22.8(1.0)	22.6(0.8)	22.2(0.4)	21.8(0.0)	<i>Anti</i> (32)	4R,5R (67)
<i>M6</i>	24.9(0.5)	24.3(0.0)	25.1(0.8)	24.6(0.3)	<i>Syn</i> (24)	4S,5R (59)
<i>M7^c</i>	29.5(1.6)	27.9(0.0)	30.1(2.1)	29.5(1.6)	<i>Syn</i> (87)	4S,5R (94)
<i>M8^c</i>	23.8(0.6)	23.2(0.0)	23.7(0.5)	23.8(0.6)	<i>Syn</i> (46)	4S,5R (40)
<i>M9</i>	32.2(2.2)	30.0(0.0)	32.7(2.7)	31.4(1.4)	<i>Syn</i> (83)	4S,5R (98)
<i>M10</i>	22.4(1.2)	22.0(0.8)	21.4(0.2)	21.2(0.0)	<i>Anti</i> (16)	4R,5R (76)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition states. [b] See scheme 2 for numbering of stereocenters. [c] Thermal corrections to free energy are taken from the frequency calculation at the mPW1PW91/6-31G*.

M1 : mPW1PW91/6-31G**//6-31G*

M2 : mPW1PW91/6-311G**//6-31G*

M3 : mPW1PW91/6-31+G**//6-31+G*

M4 : mPW1PW91/6-311G**//6-31+G*

M5 : mPW1PW91/6-31G**//6-31G**

M6 : mPW1PW91/6-311G**//6-31G**

M7 : mPW1PW91/6-31+G**//6-31+G**

M8 : mPW1PW91/6-311G**//6-31+G**

M9 : mPW1PW91/6-311+G**//6-31G*

M10: mPW1PW91/cc-PVDZ//6-31G*

Table S15. The Computed Activation Parameters^a (in kcal/mol) at the mPW1PW91 level of theory for the Michael Reaction between Proline Enamines Derived from Pentanone (2) with Nitrostyrene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using the Transition States Model-C₂ in the Solvent-assisted pathway

	Mode of approach				%de	%ee ^b
	<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>		
	ΔE^\ddagger (Solvent-phase)					
<i>M1</i>	- 4.7(1.2)	- 5.9(0.0)	- 5.0(0.9)	- 5.4(0.4)	<i>Syn</i> (32)	4S,5R (64)
<i>M2</i>	- 2.6(1.6)	- 4.2(0.0)	- 2.4(1.8)	- 2.9(1.3)	<i>Syn</i> (80)	4S,5R (90)
<i>M3</i>	3.9(2.1)	1.8(0.0)	5.1(3.3)	3.4(1.6)	<i>Syn</i> (87)	4S,5R (99)
<i>M4</i>	- 3.0(0.7)	- 3.7(0.0)	- 2.6(0.9)	- 3.2(0.5)	<i>Syn</i> (40)	4S,5R (64)
<i>M5</i>	- 5.1(1.1)	- 6.2(0.0)	- 5.3(0.9)	- 5.7(0.5)	<i>Syn</i> (40)	4S,5R (64)
<i>M6</i>	- 2.8(1.5)	- 4.3(0.0)	- 2.4(1.9)	- 3.1(1.2)	<i>Syn</i> (77)	4S,5R (92)
<i>M7</i>	4.2(2.5)	1.7(0.0)	5.2(3.5)	3.8(2.1)	<i>Syn</i> (94)	4S,5R (99)
<i>M8</i>	- 3.1(1.0)	- 4.1(0.0)	- 2.9(1.2)	- 3.4(0.7)	<i>Syn</i> (53)	4S,5R (76)
<i>M9</i>	5.8(3.5)	2.3(0.0)	6.9(4.6)	5.6(3.3)	<i>Syn</i> (99)	4S,5R (99)
<i>M10</i>	-6.9(1.0)	-7.9(0.0)	-7.6(0.3)	-7.6(0.3)	<i>Syn</i> (24)	4S,5R (24)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition states. [b] See scheme 2 for numbering of stereocenters.

M1 : PCM/mPW1PW91/6-31G**//6-31G*

M2 : PCM/mPW1PW91/6-311G**//6-31G*

M3 : PCM/mPW1PW91/6-31+G**//6-31+G*

M4 : PCM/mPW1PW91/6-311G**//6-31+G*

M5 : PCM/mPW1PW91/6-31G**//6-31G**

M6 : PCM/mPW1PW91/6-311G**//6-31G**

M7 : PCM/mPW1PW91/6-31+G**//6-31+G**

M8 : PCM/mPW1PW91/6-311G**//6-31+G**

M9 : PCM/mPW1PW91/6-311+G**//6-31G*

M10 PCM/mPW1PW91/cc-PVDZ//6-31G*

Table S16. The Computed Activation Parameters ^a (in kcal/mol) at the mPW1K/6-31+G* levels of theory for the Michael Reaction between Proline Enamines Derived from 3-Pentanone (**2**) with Nitrostyrene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using the Transition States in the various pathway

Model ^a	Mode of approach				%de	%ee ^b
	a-si	a-re	s-si	s-re		
ΔH^\ddagger (gas-phase)						
UA	12.5(0.0)	14.5 (2.0)	12.5 (0.0)	13.8 (1.3)	<i>Nil</i>	<i>Nil</i>
C₁	0.8 (0.0)	2.4 (1.6)	3.2 (2.4)	2.9 (2.1)	<i>Anti (87)</i>	4S,5S (94)
C₂	-5.9(1.7)	-6.3 (1.3)	-6.9(0.7)	-7.6 (0.0)	<i>Anti (53)</i>	4R,5R (89)
ΔG^\ddagger (gas-phase)						
UA	29.4 (0.0)	30.2 (0.8)	29.8 (0.4)	30.4(1.0)	<i>Anti (59)</i>	4S,5S (68)
C₁	27.5 (0.0)	28.8 (1.3)	29.6 (2.1)	29.5(2.0)	<i>Anti (80)</i>	4S,5S (99)
C₂	29.6(1.0)	28.6(0.0)	29.9(1.3)	29.2(0.6)	<i>Syn (47)</i>	4S,5R (80)
ΔE^\ddagger (solvent-phase) ^c						
UA	11.2 (0.0)	12.4 (1.2)	14.8 (3.2)	12.4(1.2)	<i>Anti (77)</i>	4S,5S (77)
C₁	5.8 (1.0)	4.8 (0.0)	9.6 (4.8)	8.8 (4.0)	<i>Syn (68)</i>	4S,5R (99)
C₂	5.4 (2.5)	2.9 (0.0)	5.9 (3.0)	4.4 (1.5)	<i>Syn (85)</i>	4S,5R (98)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition states. [b] See scheme 2 for numbering of stereocenters. [c] Activation parameter obtained at the PCM_(MeOH)/mPW1K/6-31+G*//mPW1K/6-31+G*.

Table S17. The Computed Activation Parameters ^a (in kcal/mol) at the mPW1K/6-311G**//6-31+G* levels of theory for the Michael Reaction between Proline Enamines Derived from 3-Pentanone (**2**) with Nitrostyrene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using the Transition States in the various pathway

Model ^a	Mode of approach				%de	%ee ^b
	a-si	a-re	s-si	s-re		
ΔH^\ddagger (gas-phase)						
UA	12.2(0.8)	14.2(2.0)	11.4(0.0)	13.7(2.3)	<i>Syn</i> (59)	4R,5S (93)
C1	-1.3(0.0)	0.8(2.1)	0.2(1.5)	1.1(2.4)	<i>Anti</i> (85)	4S,5S (96)
C2	-9.8(1.4)	-9.4(1.8)	-11.2(0.0)	-11.1(0.1)	<i>Syn</i> (08)	4R,5S (91)
ΔG^\ddagger (gas-phase)						
UA	29.0(0.3)	29.8(1.1)	28.7(0.0)	30.4(1.3)	<i>Syn</i> (24)	4R,5S (73)
C1	25.4(0.0)	27.1(1.7)	27.1(1.7)	27.6(2.2)	<i>Anti</i> (89)	4S,5S (95)
C2	25.7(0.2)	25.5(0.0)	25.6(0.2)	25.7(0.2)	<i>Syn</i> (16)	4S,5R (16)
ΔE^\ddagger (solvent-phase) ^c						
UA	10.8(0.0)	12.0(1.2)	13.6(2.8)	12.8(2.0)	<i>Anti</i> (76)	4S,5S (93)
C1	3.1(0.2)	2.9(0.0)	6.6(4.7)	6.3(4.4)	<i>Syn</i> (16)	4S,5R (99)
C2	-0.2(1.3)	-1.5(0.0)	-0.2(1.3)	-0.8(0.7)	<i>Syn</i> (80)	4S,5R (80)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition states. [b] See scheme 2 for numbering of stereocenters. [c] Activation parameter obtained at the PCM_(MeOH)/mPW1K/6-311G**//mPW1K/6-31+G*.

Table S18. Computed Solute-solvent Interactions Energies (in kcal/mol) Obtained at the PCM_(methanol)/mPW1PW91/6-311G**//mPW1PW91/6-31G* (*M₁*) and PCM_(methanol)/B3LYP/6-311G**//B3LYP/6-31G* (*M₂*) Level of Theory for Michael Reaction of 3-Propanal (**1**), 3-Pentanone (**2**), or Cyclohexanone (**3**) with Nitrostyrene Catalyzed by Proline Using Unassisted pathway.

		Mode of approach			
		<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>
1	<i>M₁</i>	21.6	22.9	20.4	24.9
	<i>M₂</i>	27.8	25.8	22.5	27.0
2	<i>M₁</i>	26.7	25.8	21.9	25.6
	<i>M₂</i>	25.3	24.7	21.6	26.1
3	<i>M₁</i>	26.7	25.0	21.8	26.1
	<i>M₂</i>	28.3	25.9	22.9	26.8

Table S19. Computed Solute-Solvent Interactions Energies (in kcal/mol) Obtained at the PCM_(methanol)/mPW1PW91/6-311G**//mPW1PW91/6-31G* (*M₁*) and PCM_(methanol)/B3LYP/6-311G**//B3LYP/6-31G* (*M₂*) Level of Theory for Michael Reaction of 3-Propanal (**1**), 3-Pentanone (**2**), or Cyclohexanone (**3**) with Nitrostyrene Catalyzed by Proline Using Solvent-assisted Pathway (**C₂**)

		Mode of approach			
		<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>
1	<i>M₁</i>	21.1	23.6	19.9	21.0
	<i>M₂</i>	23.5	25.1	20.5	21.5
2	<i>M₁</i>	16.7	20.0	18.8	19.3
	<i>M₂</i>	18.8	21.8	19.0	20.2
3	<i>M₁</i>	20.0	23.8	19.4	20.3
	<i>M₂</i>	21.8	26.3	22.9	21.3

Table S20. The Enthalpies of Activation ^a (in kcal/mol) at the mPW1PW91 (*M1*) and B3LYP (*M2*) levels of theory for the Michael Reaction between Proline Enamines Derived 3-Pentanone (**2**) with Nitrostyrene Along with the Corresponding Diastereomeric and Enantiomeric Excess Obtained by Using Different Methanol-Assisted Transition State Models

Model ^a	Mode of approach				%de	%ee ^d	
	<i>a-si</i>	<i>a-re</i>	<i>s-si</i>	<i>s-re</i>			
ΔH^\ddagger (gas-phase) ^b							
UA ^c	<i>M1</i>	10.8 (0.7)	12.6 (2.5)	10.1 (0.0)	12.7 (2.6)	<i>Syn</i> (53)	4R,5S (90)
	<i>M2</i>	14.9 (0.7)	15.7 (1.5)	14.2 (0.0)	17.0 (2.8)	<i>Syn</i> (53)	4R,5S (90)
L₁	<i>M1</i>	0.8 (0.0)	4.3 (3.5)	2.2 (1.4)	1.3 (0.5)	<i>Anti</i> (40)	4S,5S (83)
	<i>M2</i>	3.9 (0.0)	6.7 (2.8)	5.4 (1.5)	4.5 (0.6)	<i>Anti</i> (46)	4S,5S (85)
L₂	<i>M1</i>	- 4.4 (0.3)	- 4.7 (0.0)	- 2.3 (2.4)	- 4.5 (0.2)	<i>Syn</i> (17)	4S,5R (96)
	<i>M2</i>	- 2.2 (1.1)	- 3.3 (0.0)	- 0.1 (3.2)	- 2.2 (1.1)	<i>Syn</i> (73)	4S,5R (99)
ΔH^\ddagger (gas-phase) ^b							
C₁	<i>M1</i>	- 2.8 (0.0)	- 0.6 (2.2)	- 1.1 (1.7)	- 0.1 (2.7)	<i>Anti</i> (89)	4S,5S (99)
	<i>M2</i>	0.8 (0.0)	3.1 (2.3)	1.9 (0.8)	4.2 (3.4)	<i>Anti</i> (59)	4S,5S (99)
L₁C₁	<i>M1</i>	- 11.4(0.0)	- 10.1(1.3)	- 10.8(0.6)	- 9.3 (2.1)	<i>Anti</i> (46)	4S,5S (94)
	<i>M2</i>	- 9.2 (0.0)	- 7.6 (1.6)	- 8.9 (0.3)	- 6.7 (2.5)	<i>Anti</i> (25)	4S,5S(97)
L₂C₁	<i>M1</i>	- 17.5 (0.5)	- 18.0 (0.0)	- 14.6(3.4)	- 16.7 (1.3)	<i>Syn</i> (40)	4S,5R (99)
	<i>M2</i>	- 16.2 (0.0)	- 15.9 (0.3)	- 13.2(3.0)	- 14.9 (1.3)	<i>Anti</i> (25)	4S,5S (80)
ΔH^\ddagger (gas-phase) ^b							
C₂	<i>M1</i>	- 11.5 (1.3)	- 11.2 (1.6)	- 12.8 (0.0)	- 12.7 (0.1)	<i>Syn</i> (08)	4R,5S (87)
	<i>M2</i>	- 8.6 (1.5)	- 8.0 (2.1)	- 10.1 (0.0)	- 8.9 (1.2)	<i>Syn</i> (77)	4R,5S (94)
L₁C₂	<i>M1</i>	- 20.5 (0.3)	- 18.9 (1.9)	- 18.3 (2.5)	- 20.8 (0.0)	<i>Anti</i> (92)	4R,5R(25)
	<i>M2</i>	- 16.9 (1.7)	- 16.5 (2.1)	- 16.6 (2.0)	- 18.6 (0.0)	<i>Anti</i> (93)	4R,5R (88)
L₂C₂	<i>M1</i>	- 28.4 (0.0)	- 26.0 (2.4)	- 28.2 (0.2)	- 28.0 (0.4)	<i>Anti</i> (17)	4S,5S (32)
	<i>M2</i>	- 27.4 (0.0)	- 24.6 (2.8)	- 27.3 (0.1)	- 26.9 (0.5)	<i>Anti</i> (08)	4S,5S (40)

[a] Activation barriers are with respect to isolated reactants; values in parentheses indicate relative barriers with respect to the lowest energy transition states. [b] Activation parameter are obtained at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and B3LYP/6-311G**//B3LYP/6-31G* levels of theory. [c] UA refers to the unassisted pathway. [d] See Scheme2 (in the text) for the numbering of stereocenters.

Table S21. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Propanal (**1**) to Nitrostyrene. The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1031.7575762 (-1032.0159641) (-1032.0506009) NImag=1(-338.80 cm ⁻¹)				<i>a-re</i> Et = -1031.7585311 (-1032.0173004) (-1032.0494855) NImag= 1(-345.69 cm ⁻¹)			
6	3.643656	-0.975784	0.356370	6	-3.147270	1.182054	-0.011362
6	2.426678	-0.287170	0.307184	6	-2.808524	-0.145779	0.281842
6	2.448615	1.092952	0.062972	6	-3.825691	-1.108190	0.280441
6	3.654378	1.759664	-0.118932	6	-5.143031	-0.753625	0.007168
6	4.859443	1.062782	-0.061158	6	-5.464552	0.569107	-0.278521
6	4.850688	-0.307525	0.179238	6	-4.461033	1.536478	-0.287036
6	1.156047	-1.025184	0.528073	6	-1.424678	-0.549787	0.606987
6	0.224773	-0.408260	1.406410	6	-0.567063	-0.709824	-1.330404
7	-0.903505	-1.044307	1.781154	6	-0.659662	0.268005	1.446242
8	-1.056815	-2.266612	1.560633	7	0.548830	-0.173880	1.896905
8	-1.850384	-0.371897	2.326716	8	1.270041	0.545535	2.603390
6	0.383375	-1.396454	-1.250996	6	0.812968	-0.704685	-1.103629
6	-0.447387	-0.271846	-1.424869	7	1.549578	0.378897	-0.889680
7	-1.695272	-0.201008	-1.007760	6	3.016432	0.411359	-0.787322
6	-2.426668	1.080150	-0.856437	6	3.228051	1.659373	0.070899
6	-3.779940	0.645824	-0.297671	6	2.211666	2.639902	-0.525147
6	-3.985395	-0.734360	-0.916690	6	1.053991	1.755476	-1.026178
6	-2.595625	-1.353155	-0.817167	6	3.795448	-0.819138	-0.300347
6	-1.624553	2.099304	-0.027585	8	3.337067	-1.574937	0.676650
8	-1.649280	2.009784	1.287285	8	4.870054	-1.021483	-0.815868
8	-1.009508	2.967197	-0.608895	8	0.909375	-1.341924	1.539912
1	-4.299189	-0.649112	-1.962575	1	2.655451	3.186152	-1.361737
1	-4.729211	-1.328988	-0.383393	1	1.870780	3.373610	0.207470
1	-3.726005	0.552806	0.789757	1	2.982798	1.429769	1.112276
1	-4.563157	1.364169	-0.546378	1	4.257207	2.017009	0.016240
1	-2.535958	1.532811	-1.846624	1	3.419363	0.592136	-1.791149
1	-2.383802	-2.094961	-1.590360	1	0.809054	1.953543	-2.077566
1	-2.417948	-1.814195	0.162744	1	0.146566	1.874444	-0.437738
1	1.285821	-2.093711	0.692294	1	-0.915167	1.272094	1.748662
1	0.277460	0.635204	1.673315	1	-1.264939	-1.615379	0.737410
1	1.521380	1.657360	0.015315	1	-3.581706	-2.139482	0.517382
1	3.651061	2.828662	-0.305315	1	-5.917972	-1.513066	0.019484
1	5.799399	1.586408	-0.202140	1	-6.490769	0.846984	-0.495134
1	5.784141	-0.858683	0.231314	1	-4.704299	2.569954	-0.511685
1	3.643024	-2.043781	0.555398	1	-2.372997	1.943667	-0.029021
1	-0.145704	-2.306187	-0.972219	1	2.449811	-1.329936	1.072729
1	-1.855867	1.089861	1.673727	1	-1.001187	0.219798	-1.689148
6	1.532761	-1.603076	-2.205573	1	1.348459	-1.646430	-1.039719
1	2.024333	-0.660342	-2.459150	6	-1.186546	-1.968859	-1.878186
1	2.289141	-2.263310	-1.772756	1	-2.260304	-2.000940	-1.673061
1	1.183975	-2.066645	-3.134850	1	-1.064928	-2.037695	-2.965223
1	-0.008625	0.674881	-1.736787	1	-0.729409	-2.860076	-1.436406
<i>s-si</i> Et = -1031.7617621 (-1032.0197464) (-1032.0482244) NImag=1(-347.46 cm ⁻¹)				<i>s-re</i> Et = -1031.7531558 (-1032.0120641) (-1032.045215) NImag= 1(-387.32 cm ⁻¹)			
6	0.312661	-0.759906	-1.421466	6	0.132985	0.129686	1.352957
6	-0.983158	-1.207985	-1.150099	6	-1.171987	0.635902	1.211628
7	-1.992533	-0.461992	-0.703479	7	-2.263557	-0.001951	0.792551
6	-2.136782	0.989403	-0.905702	6	-2.314542	-1.386004	0.346037
6	-3.648962	1.241447	-0.709566	6	-3.823644	-1.642635	0.101264
6	-4.302795	-0.133453	-0.854961	6	-4.534610	-0.501092	0.831409

6	-3.254083	-1.063714	-0.265387	6	-3.562494	0.659758	0.673413
6	-1.307833	1.911432	0.004992	6	-1.554429	-1.691172	-0.946894
8	-1.533214	1.885014	1.311972	8	-1.402958	-0.706680	-1.830133
8	-0.557333	2.718876	-0.494763	8	-1.207949	-2.822284	-1.183881
1	-4.470571	-0.375167	-1.909616	1	-4.659910	-0.738871	1.892333
1	-5.260238	-0.197319	-0.333907	1	-5.518893	-0.284101	0.411653
1	-3.823436	1.634575	0.295334	1	-4.036430	-1.589303	-0.970685
1	-4.019139	1.979051	-1.423738	1	-4.115929	-2.635230	0.445105
1	-1.811465	1.222795	-1.922762	1	-1.910167	-2.045841	1.119604
1	-3.316577	-2.094005	-0.617718	1	-3.660906	1.428514	1.442604
1	-3.262593	-1.077316	0.832929	1	-3.647073	1.146652	-0.305312
1	-1.790195	0.990099	1.694540	1	-1.446430	0.211821	-1.453665
6	1.192624	-0.937578	0.445715	6	1.155361	0.589458	-0.363702
6	0.321474	-0.406672	1.410849	1	0.474919	0.003246	-0.964868
1	1.212415	-2.022294	0.389433	6	1.125144	1.971512	-0.619319
1	0.412384	0.580466	1.833949	1	0.236860	-0.950889	1.259870
6	2.496994	-0.270223	0.232956	7	-0.046157	2.576307	-0.963624
6	2.613174	1.124775	0.156564	8	-0.089751	3.787264	-1.202202
6	3.859083	1.716708	-0.007764	8	-1.116174	1.872493	-0.967070
6	5.006858	0.931554	-0.100468	6	2.451926	-0.096703	-0.159276
6	4.901790	-0.454164	-0.034617	6	2.542625	-1.459230	-0.475234
6	3.654761	-1.049879	0.123691	6	3.739208	-2.148536	-0.321079
1	1.726584	1.750524	0.207123	6	4.868352	-1.489121	0.157318
1	3.932967	2.797651	-0.067741	6	4.791532	-0.136642	0.480006
1	5.977788	1.399155	-0.228504	6	3.594446	0.553053	0.326453
1	5.789842	-1.073802	-0.106668	1	1.666700	-1.978166	-0.856255
1	3.575659	-2.131579	0.182940	1	3.790120	-3.201168	-0.579706
7	-0.806174	-1.091780	1.743912	1	5.804100	-2.025512	0.277106
8	-0.970379	-2.261286	1.343347	1	5.667640	0.384787	0.852017
8	-1.710158	-0.502706	2.427386	1	3.551581	1.605885	0.585180
1	0.447938	0.317044	-1.507433	1	1.951844	2.653657	-0.500210
6	1.177882	-1.600820	-2.325062	1	-1.359844	1.656157	1.530340
1	2.238306	-1.397033	-2.155983	6	0.958601	0.762481	2.450445
1	1.004984	-2.669300	-2.158653	1	0.588671	0.488959	3.444815
1	0.969981	-1.391840	-3.380170	1	2.001257	0.443574	2.387614
1	-1.197157	-2.270024	-1.207967	1	0.933695	1.854711	2.373689

Table S22. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), for Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and 3-Pentanone (**2**) to Nitrostyrene. The values in the parenthesis implies single-point energies evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1110.3703456 (-1110.6474702) (-1110.6756777) NImag=1(-323.91 cm ⁻¹)				<i>a-si (II)</i> (TS without H-bonding) Et = -1110.3593266 (-1110.6378766) (-1110.669237) Nimag = 1(-344.46 cm ⁻¹)			
6	-3.731188	-0.930028	0.442198	6	-0.614943	1.146956	-0.496849
6	-2.515319	-0.583705	-0.160157	6	0.746310	0.954653	-0.146078
6	-2.527997	0.401259	-1.158400	7	1.425340	-0.109662	-0.625329
6	-3.715477	1.017148	-1.534752	6	2.681812	-0.606042	-0.028513
6	-4.916305	0.662812	-0.923691	6	2.948795	-1.948060	-0.743110
6	-4.920606	-0.316035	0.064907	6	1.578418	-2.379273	-1.253062
6	-1.275571	-1.288624	0.248550	6	0.916187	-1.063885	-1.632516
6	-0.329722	-1.593625	-0.757963	6	3.888017	0.299041	-0.244421
7	0.739815	-2.370089	-0.471833	8	3.898185	0.980485	-1.412139
8	0.794170	-3.026090	0.588970	8	4.817516	0.344697	0.511697
8	1.733016	-2.380182	-1.278442	1	3.641576	-1.801691	-1.579325
6	-0.404250	-0.251664	1.724574	1	3.396527	-2.662747	-0.053022
6	-1.508876	0.204858	2.643275	1	2.524791	-0.752204	1.045277
6	0.420433	0.677413	1.043826	1	-0.167542	-1.123140	-1.607570

6	-0.090091	2.035129	0.650676	1	1.218887	-0.729606	-2.636136
6	0.308070	3.091553	1.692903	1	3.032670	0.876669	-1.837662
7	1.649072	0.307585	0.659885	6	-1.601964	-0.041773	0.768639
6	2.477290	1.053566	-0.317079	6	-0.992439	-1.298322	0.960215
6	3.847189	0.368724	-0.234965	6	-1.269237	2.497791	-0.327616
6	3.896693	-0.146067	1.197326	1	-0.930860	3.209915	-1.087568
6	2.481574	-0.667520	1.400994	1	-2.351468	2.400187	-0.438257
6	1.924867	1.099808	-1.753996	1	-1.076198	2.940414	0.653336
8	1.759178	-0.029404	-2.414149	1	-1.467027	0.643461	1.603217
8	1.708317	2.176099	-2.266548	1	-1.333151	-2.224521	0.523197
1	4.115209	0.669063	1.895760	6	-2.978798	-0.054014	0.202389
1	4.641492	-0.931316	1.341385	6	-3.308117	-0.810439	-0.928700
1	3.887161	-0.473555	-0.931492	6	-4.607838	-0.831940	-1.419773
1	4.650251	1.062337	-0.490526	6	-5.606774	-0.093195	-0.789824
1	2.553841	2.097534	-0.003597	6	-5.293720	0.666129	0.333100
1	2.168891	-0.677228	2.446098	6	-3.990752	0.688441	0.820772
1	2.366228	-1.678020	0.998663	1	-2.539804	-1.393227	-1.429581
1	-2.135566	0.986306	2.208384	1	-4.842238	-1.426541	-2.297018
1	-2.164535	-0.634983	2.889938	1	-6.621583	-0.109327	-1.173571
1	-1.103008	0.581601	3.589244	1	-6.064771	1.243257	0.833317
1	-1.447385	-2.097458	0.955879	1	-3.754206	1.276941	1.702245
1	-0.292307	-1.098232	-1.714624	7	0.137510	-1.397232	1.724019
1	-1.605280	0.689739	-1.651911	8	0.602541	-0.346796	2.237564
1	-3.702425	1.774313	-2.312034	8	0.701623	-2.501717	1.863557
1	-5.842499	1.143708	-1.221019	1	-0.930853	0.658099	-1.413407
1	-5.851459	-0.607752	0.540487	6	1.437659	1.919008	0.784807
1	-3.744851	-1.705878	1.202118	1	2.257358	1.431126	1.312023
1	0.128486	-1.126311	2.091998	1	0.720724	2.183221	1.565123
1	-1.177838	1.996112	0.569705	6	1.946396	3.194517	0.097806
1	0.285908	2.336736	-0.329424	1	2.386276	3.853642	0.851145
1	1.394679	3.172366	1.790149	1	2.722826	2.979712	-0.638981
1	-0.074527	4.070421	1.392693	1	1.144170	3.745461	-0.397438
1	-0.100006	2.855507	2.679090	1	1.022789	-2.853483	-0.440520
1	1.845600	-0.900878	-1.901345	1	1.638163	-3.068278	-2.098693
<i>a-re</i> Et = -1110.3667367 (-1110.644317) (-1110.6737191) NImag= 1(-326.62 cm ⁻¹)				<i>a-re (II)</i> Et = -1110.3663982 (-1110.64363916) (-1110.67249220) NImag= 1(-331.8 cm ⁻¹)			
6	-3.456860	-0.900347	0.762205	6	3.316538	-1.144524	-0.473250
6	-3.000950	-0.158533	-0.335617	6	2.980716	-0.092515	0.390155
6	-3.921436	0.628147	-1.037878	6	3.991324	0.797856	0.774887
6	-5.261051	0.660946	-0.665270	6	5.296928	0.636073	0.323523
6	-5.701055	-0.083789	0.424539	6	5.615135	-0.416059	-0.529360
6	-4.793050	-0.863650	1.138538	6	4.618951	-1.305853	-0.926640
6	-1.593245	-0.204560	-0.781627	6	1.614112	0.094158	0.914074
6	-0.696845	1.084190	0.694355	6	0.658424	1.193102	-0.683955
6	-1.481065	2.366173	0.548750	6	1.304160	2.550342	-0.582851
6	-0.943459	-1.438863	-0.824498	6	0.835680	-1.012815	1.256063
7	0.272861	-1.558886	-1.433263	7	-0.373443	-0.787520	1.844532
8	0.896631	-2.628836	-1.379502	8	-1.165970	-1.760210	2.027620
6	0.681748	1.040618	0.404253	6	-0.729341	1.022026	-0.493155
6	1.312232	2.144708	-0.402979	6	-1.584343	2.144670	0.032712
6	2.056666	3.163768	0.469304	6	-2.279714	2.915627	-1.095542
7	1.444773	0.031464	0.859166	7	-1.302021	-0.148981	-0.839191
6	2.911899	-0.101275	0.740017	6	-2.745052	-0.478281	-0.830674
6	3.127630	-1.572938	1.100907	6	-2.724568	-1.995882	-1.007504
6	2.172957	-1.758343	2.273597	6	-1.645016	-2.180617	-2.066244
6	0.955588	-0.915908	1.886252	6	-0.600917	-1.120592	-1.706912
6	3.689549	0.249464	-0.540434	6	-3.672652	-0.048545	0.322806
8	3.278916	-0.166146	-1.722086	8	-3.471249	-0.504340	1.542070
8	4.752450	0.809009	-0.394487	8	-4.648642	0.611022	0.043232
8	0.739467	-0.543973	-2.038547	8	-0.697743	0.376750	2.142730

1 2.625948 -1.373621 3.192338	1 -2.056352 -1.986648 -3.061335
1 1.904541 -2.802853 2.443426	1 -1.219131 -3.186126 -2.072578
1 2.832238 -2.200829 0.254229	1 -2.428146 -2.465379 -0.064961
1 4.171864 -1.773713 1.345970	1 -3.702102 -2.381136 -1.303692
1 3.378170 0.527596 1.506488	1 -3.206292 -0.017969 -1.711456
1 0.551516 -0.355160 2.737249	1 -0.215740 -0.606057 -2.595061
1 0.157182 -1.528727 1.470646	1 0.245043 -1.547481 -1.170920
1 -1.570509 2.697211 -0.491904	1 1.142758 3.023925 0.390890
1 -2.495864 2.222053 0.923301	1 2.383555 2.456046 -0.724597
1 -1.037694 3.193407 1.114894	1 0.937160 3.245257 -1.347387
1 -1.289520 -2.340428 -0.342476	1 1.038007 -2.041309 1.001191
1 -1.323493 0.491648 -1.568922	1 1.465234 0.967483 1.540457
1 -3.584066 1.205200 -1.893517	1 3.750074 1.613587 1.449677
1 -5.961091 1.269851 -1.228061	1 6.066092 1.332533 0.641098
1 -6.745016 -0.056070 0.719015	1 6.632432 -0.542739 -0.884836
1 -5.128211 -1.443596 1.992414	1 4.858662 -2.127409 -1.594008
1 -2.756118 -1.504295 1.331332	1 2.550723 -1.842838 -0.797258
1 2.328569 -0.482528 -1.779059	1 -2.606768 -0.976910 1.707355
1 -1.029857 0.458186 1.515017	1 1.119041 0.544216 -1.420808
1 0.519013 2.653173 -0.952951	1 -0.942839 2.819152 0.600100
1 1.982046 1.742397 -1.162308	1 -2.321459 1.780099 0.746022
1 2.944386 2.729626 0.934393	1 -3.035969 2.305033 -1.593670
1 2.393053 3.998756 -0.150567	1 -2.793380 3.786418 -0.680058
1 1.414246 3.565404 1.258223	1 -1.565705 3.268953 -1.845562
<i>a-re (III)</i> Et = -1110.3643453 (-1110.6424412) (-1110.675343) NImag = 1(-331.8 cm ⁻¹)	<i>a-re(IV) TS without H-bonding</i> Et = -1110.3524262 (-1110.63145) (-1110.6657406) Nimag = 1(-359.93 cm ⁻¹)
6 -3.637802 0.705154 -0.450129	6 0.551182 -0.041295 -1.075881
6 -2.538677 0.204837 0.260562	6 -0.812369 -0.222537 -0.696499
6 -2.750314 -0.868397 1.134808	6 -1.417980 -1.595506 -0.785498
6 -4.013729 -1.430080 1.289774	7 -1.583780 0.815303 -0.288807
6 -5.093021 -0.927715 0.570104	6 -2.836857 0.597421 0.466373
6 -4.900103 0.145202 -0.297225	6 -3.107415 1.943211 1.163592
6 -1.176935 0.794661 0.152729	6 -1.713306 2.534498 1.323078
6 -0.333561 0.026863 -1.473553	6 -1.043896 2.157633 0.009502
6 -1.393918 -0.569686 -2.369226	6 -4.030620 0.233977 -0.407044
6 -1.085993 2.208267 0.053953	8 -3.958338 0.661065 -1.683722
7 0.065335 2.870642 0.335116	8 -5.005628 -0.316312 0.024041
8 0.109088 4.104082 0.258696	1 -1.190116 2.046298 2.150123
6 0.655427 -0.813265 -0.887203	1 -1.718870 3.613529 1.493339
6 0.288282 -2.180213 -0.379087	1 -3.725420 2.587985 0.528487
6 0.714011 -3.270625 -1.373189	1 -3.637851 1.789865 2.103586
7 1.907669 -0.387299 -0.717925	1 -2.672962 -0.185813 1.210138
6 2.841872 -0.931718 0.281224	1 0.039878 2.138642 0.083686
6 4.070751 -0.011900 0.171083	1 -1.317136 2.853339 -0.794023
6 4.004250 0.506448 -1.262068	1 -3.059566 1.003080 -1.829219
6 2.511360 0.734266 -1.453345	1 -2.223596 -1.715065 -0.061997
6 2.297352 -0.964149 1.715806	1 -0.636264 -2.299850 -0.477604
8 1.564444 0.054609 2.139892	6 1.577477 -0.247178 0.560686
8 2.572127 -1.897688 2.431726	1 1.040004 0.520499 1.111933
8 1.123058 2.213406 0.646090	6 1.421566 -1.518007 1.163462
1 4.376704 -0.245810 -1.965603	1 0.820385 0.989288 -1.295799
1 4.577730 1.424254 -1.405599	7 0.279899 -1.759937 1.877915
1 3.970450 0.823765 0.870738	8 0.123503 -2.833106 2.474842
1 4.988926 -0.549127 0.412587	8 -0.607229 -0.852931 1.879540
1 3.105994 -1.963404 0.035114	6 2.946663 0.186832 0.160623
1 2.189837 0.702824 -2.496216	6 3.265246 1.548947 0.201139
1 2.191193 1.676061 -0.989757	6 4.534137 2.003964 -0.139360
1 -2.160491 0.173588 -2.597406	6 5.514483 1.099002 -0.535044
1 -0.957153 -0.888985 -3.322774	6 5.213960 -0.259708 -0.582390
1 -1.899736 -1.429108 -1.923494	6 3.944371 -0.711040 -0.239415

1	-1.883563	2.849778	-0.286135	1	2.511051	2.262129	0.524865
1	-0.507754	0.374238	0.894004	1	4.758471	3.064695	-0.089396
1	-1.918851	-1.247150	1.722578	1	6.506604	1.448914	-0.800900
1	-4.154720	-2.253784	1.982162	1	5.972782	-0.974202	-0.884982
1	-6.080071	-1.362358	0.689661	1	3.729686	-1.773524	-0.280861
1	-5.738202	0.551242	-0.854567	1	2.120019	-2.338440	1.127888
1	-3.508366	1.546082	-1.123980	6	1.181377	-0.996145	-2.065886
1	1.413269	0.804018	1.493746	1	2.244648	-0.768907	-2.164659
1	0.066368	0.953244	-1.874022	1	1.093803	-2.039135	-1.750227
1	-0.792205	-2.222989	-0.230644	1	0.737603	-0.900626	-3.061384
1	0.745161	-2.384824	0.592912	6	-1.932399	-1.990327	-2.179015
1	1.794781	-3.262907	-1.539499	1	-1.149522	-1.963534	-2.938070
1	0.440730	-4.254681	-0.984087	1	-2.317259	-3.012411	-2.134422
1	0.223694	-3.140340	-2.341392	1	-2.751392	-1.346491	-2.506406
<i>s-si</i> Et = -1110.3697226 (-1110.6468445) (-1110.6735793) NImag=1(-326.50 cm ⁻¹)				<i>s-si(II)</i> Et = -1110.3559058 (-1110.6349382) (-1110.666055) NImag=1(-372.54 cm ⁻¹)			
6	-0.294566	1.013883	-0.874467	6	-2.652910	-1.304114	-0.855910
6	0.994650	1.257939	-0.367922	6	-2.557010	0.001943	-0.361206
7	1.895779	0.257774	-0.292688	6	-3.678475	0.552219	0.271591
6	1.885755	-0.921251	-1.185136	6	-4.856656	-0.176061	0.392629
6	3.342999	-1.436664	-1.162664	6	-4.937367	-1.471692	-0.110433
6	4.159256	-0.290602	-0.570868	6	-3.828729	-2.035138	-0.735347
6	3.183257	0.349254	0.403823	6	-1.276784	0.745906	-0.531856
6	0.920315	-2.076015	-0.860701	6	-1.301293	2.159674	-0.552765
8	1.087173	-2.753761	0.267605	7	-0.182798	2.813889	-0.977191
8	0.115999	-2.426713	-1.695473	8	0.814448	2.095868	-1.303391
1	4.439247	0.429953	-1.346684	8	-0.137246	4.052009	-1.009720
1	5.072612	-0.634519	-0.080786	6	-0.168932	0.059347	0.907060
1	3.410127	-2.316619	-0.518249	6	-0.873024	0.465148	2.183876
1	3.666320	-1.733503	-2.162076	6	1.156355	0.524426	0.661883
1	1.592332	-0.581747	-2.181340	6	1.679366	1.748632	1.361039
1	3.431308	1.379464	0.643013	6	2.394154	1.393254	2.672185
1	3.098623	-0.207856	1.347611	7	2.040911	-0.206775	-0.061861
1	1.399681	-2.213886	1.057261	6	1.699856	-1.503585	-0.657301
6	-1.277285	0.411589	0.887592	6	2.925181	-1.838794	-1.521422
6	-0.536971	-0.624112	1.472776	6	3.400933	-0.464944	-1.978336
6	-1.154353	2.123209	-1.427233	6	3.199949	0.408593	-0.745522
1	-0.715710	2.563300	-2.330255	6	1.457939	-2.606774	0.370606
1	-2.135213	1.730015	-1.700064	8	2.103405	-2.458920	1.537501
1	-1.318477	2.935932	-0.713025	8	0.792369	-3.575820	0.122299
1	-1.169465	1.385120	1.357100	1	2.767798	-0.094401	-2.789822
1	-0.750588	-1.671354	1.335059	1	4.436759	-0.463933	-2.324498
6	-2.628588	0.110565	0.366760	1	3.691710	-2.326334	-0.908349
6	-2.899764	-1.046651	-0.376692	1	2.662733	-2.517817	-2.333498
6	-4.190292	-1.309157	-0.819385	1	0.806104	-1.436422	-1.281959
6	-5.229219	-0.426296	-0.530594	1	2.954075	1.436797	-1.009614
6	-4.968750	0.729436	0.199333	1	4.077809	0.397022	-0.089139
6	-3.676614	0.998497	0.637314	1	-0.971495	1.550644	2.272649
1	-2.097887	-1.734350	-0.629624	1	-1.879394	0.042194	2.194799
1	-4.384028	-2.207319	-1.396741	1	-0.355862	0.093029	3.073630
1	-6.235593	-0.636627	-0.878077	1	-0.652734	0.337881	-1.322698
1	-5.770883	1.423912	0.427735	1	-2.090749	2.797881	-0.190340
1	-3.476321	1.899587	1.209740	1	-3.635952	1.559145	0.672176
7	0.615004	-0.343710	2.146743	1	-5.715734	0.272192	0.881532
8	0.909054	0.829620	2.438006	1	-5.857709	-2.038549	-0.014640
8	1.401554	-1.303585	2.443539	1	-3.877488	-3.044634	-1.130235
1	-0.434176	0.060856	-1.378385	1	-1.792588	-1.756254	-1.342829
6	1.379607	2.637828	0.105588	1	-0.326064	-0.991354	0.675018
1	1.927530	2.588020	1.045544	1	0.841142	2.418884	1.562398
1	0.465758	3.189296	0.332400	1	2.358324	2.303111	0.714875

6	2.180419	3.397997	-0.957943	1	3.285296	0.783486	2.486763
1	2.417282	4.405351	-0.604402	1	2.723257	2.306320	3.175275
1	3.124044	2.894461	-1.189663	1	1.748123	0.846274	3.363130
1	1.618611	3.492886	-1.891366	1	2.516707	-1.578296	1.540611
<i>s-re</i> Et = -1110.3643569 (-1110.6428551) (-1110.67458) NImag = 1(-364.0 cm ⁻¹)				<i>s-re(II)</i> Et = -1110.3637042 (-1110.642429) (-1110.670737) NImag=1(-326.50 cm ⁻¹)			
6	0.169138	-0.143793	-1.126019	6	-3.030282	-0.635575	-0.477537
6	-1.135920	-0.623667	-0.839132	7	-1.833032	0.082538	0.002872
6	-1.409218	-2.100785	-0.921530	6	-1.461863	1.187487	-0.897207
7	-2.152566	0.188242	-0.513555	6	-2.680897	1.313657	-1.826277
6	-2.058787	1.647045	-0.463672	6	-3.211626	-0.113401	-1.898035
6	-3.497010	2.113142	-0.136741	6	-1.089160	-0.327053	1.054818
6	-4.374227	0.914359	-0.484953	6	-1.769080	-1.161776	2.105782
6	-3.490340	-0.271984	-0.128498	6	-2.521361	-0.281875	3.112635
6	-1.126359	2.236156	0.597002	6	-1.205964	2.511777	-0.181787
8	-1.002273	1.586448	1.750303	8	-0.460695	3.342302	-0.628295
8	-0.627440	3.320597	0.415485	6	0.251138	0.106983	1.182625
1	-4.600767	0.898206	-1.555829	6	0.953387	0.051758	2.518388
1	-5.318858	0.908125	0.062702	8	-1.922693	2.729024	0.933492
1	-3.576774	2.334168	0.931921	6	1.302893	-1.110717	0.006041
1	-3.750009	3.022465	-0.682982	6	0.635688	-1.422067	-1.194200
1	-1.720720	2.029557	-1.431170	7	-0.436378	-2.267984	-1.159946
1	-3.762662	-1.174716	-0.673607	8	-0.793236	-2.717707	-0.036798
1	-3.505282	-0.502863	0.944028	6	2.608840	-0.407193	-0.115343
1	-1.154434	0.602867	1.704264	6	2.751413	0.764764	-0.867738
1	-2.110499	-2.394141	-0.139845	6	3.990789	1.380672	-0.994436
1	-0.474144	-2.618485	-0.687067	6	5.110826	0.837292	-0.369675
6	1.251444	-0.353452	0.606088	6	4.980769	-0.322246	0.388365
1	0.700123	0.440318	1.088840	6	3.738453	-0.934640	0.519532
6	1.098094	-1.613780	1.216651	8	-1.057726	-2.542874	-2.205529
1	0.257680	0.938728	-1.204852	1	-2.601561	-0.721458	-2.570918
7	-0.056895	-1.923398	1.874948	1	-4.251465	-0.164068	-2.227736
8	-0.173765	-3.003719	2.461958	1	-3.424340	1.980975	-1.374660
8	-1.038376	-1.105198	1.828178	1	-2.397734	1.733897	-2.792255
6	2.598878	0.095422	0.181378	1	-0.566117	0.950698	-1.470062
6	2.851875	1.472228	0.115308	1	-2.827487	-1.709673	-0.459791
6	4.104102	1.949994	-0.253033	1	-3.894837	-0.414737	0.160363
6	5.127189	1.059301	-0.566220	1	2.010222	0.295789	2.389763
6	4.888075	-0.311655	-0.509345	1	0.537400	0.775886	3.227052
6	3.635688	-0.789477	-0.142417	1	0.899028	-0.938396	2.980044
1	2.059344	2.172943	0.364981	1	0.872905	-1.011405	-2.163964
1	4.281142	3.019976	-0.289788	1	1.286853	-1.914528	0.738751
1	6.106242	1.430351	-0.851790	1	3.642511	-1.843036	1.107083
1	5.680620	-1.012827	-0.750642	1	5.847046	-0.752068	0.881057
1	3.465633	-1.860347	-0.108833	1	6.077789	1.319794	-0.468124
1	1.829549	-2.405912	1.225170	1	4.079908	2.291620	-1.577291
6	0.997347	-0.872210	-2.162047	1	1.884810	1.213238	-1.346031
1	1.986781	-0.418092	-2.232593	1	-2.399973	1.913877	1.157690
1	1.140099	-1.928582	-1.915383	1	0.504448	1.001477	0.620357
1	0.541761	-0.816829	-3.156788	1	-1.018268	-1.762290	2.619982
6	-1.917293	-2.552577	-2.296050	1	-2.454956	-1.872283	1.645498
1	-1.193996	-2.343658	-3.086987	1	-3.348862	0.256107	2.635558
1	-2.101467	-3.630071	-2.285502	1	-2.955083	-0.899222	3.904051
1	-2.854373	-2.055700	-2.566000	1	-1.865345	0.454892	3.584427

Table S23. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Cyclohexanone (**3**) to Nitrostyrene. The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1148.4782822 (-1148.7614342) (-1148.794807) NImag=1(-327.70 cm ⁻¹)				<i>a-si(II)</i> Et = -1148.4750759 (-1148.7580464) (-1148.7927497) NImag=1(-308.14 cm ⁻¹)			
6	3.556838	-1.045304	-0.691250	6	3.552726	-0.781359	-0.912072
6	2.390177	-0.859968	0.061676	6	2.329914	-0.813781	-0.230496
6	2.522447	-0.381696	1.374163	6	2.354588	-0.779664	1.171155
6	3.772045	-0.076947	1.899416	6	3.558614	-0.704562	1.860654
6	4.920448	-0.247924	1.129071	6	4.766372	-0.663665	1.166637
6	4.808623	-0.741036	-0.167008	6	4.759650	-0.706510	-0.223360
6	1.081139	-1.217194	-0.537952	6	1.064989	-0.929522	-1.006036
6	0.078742	-1.729566	0.322257	6	0.058966	-1.761121	-0.434697
7	-1.010510	-2.346419	-0.186005	7	-1.042303	-2.082764	-1.138779
8	-1.056317	-2.689928	-1.387073	8	-1.102002	-1.881984	-2.372344
8	-2.023920	-2.540734	0.571597	8	-2.066694	-2.543664	-0.518993
6	0.390645	0.362118	-1.577242	6	0.335521	0.813110	-1.434507
6	1.543093	1.184228	-2.126646	6	1.441652	1.780334	-1.840535
6	-0.515707	0.990888	-0.681728	6	-0.476028	1.158917	-0.315555
6	0.002147	2.036533	0.258875	6	0.094762	1.918756	0.846053
7	-1.775466	0.569174	-0.586802	7	-1.732242	0.715229	-0.246868
6	-2.718885	0.964092	0.486083	6	-2.541873	0.726399	0.991613
6	-4.011501	0.236696	0.105943	6	-3.952513	0.363704	0.512609
6	-3.963592	0.232874	-1.416070	6	-3.981592	0.894359	-0.914287
6	-2.502422	-0.092175	-1.695382	6	-2.602538	0.508024	-1.430065
6	-2.254610	0.674716	1.925529	6	-2.021163	-0.203187	2.103670
8	-2.049784	-0.576482	2.287590	8	-1.967825	-1.500307	1.872098
8	-2.138865	1.595301	2.702680	8	-1.723576	0.269644	3.178050
1	-4.228418	1.218169	-1.814811	1	-4.110762	1.982148	-0.921760
1	-4.631551	-0.507812	-1.859886	1	-4.775523	0.449131	-1.517225
1	-3.985964	-0.791861	0.475924	1	-4.076735	-0.722671	0.505701
1	-4.885004	0.738127	0.526488	1	-4.714004	0.792353	1.166455
1	-2.872594	2.046354	0.444074	1	-2.528516	1.731095	1.422810
1	-2.142185	0.314405	-2.642426	1	-2.246746	1.141568	-2.243374
1	-2.321164	-1.172597	-1.692949	1	-2.579341	-0.531548	-1.766664
1	1.175638	-1.776414	-1.465372	1	1.240386	-1.125186	-2.062748
1	0.030457	-1.525188	1.379592	1	0.022886	-2.016436	0.611658
1	1.645358	-0.253307	1.999868	1	1.427746	-0.816703	1.734509
1	3.849384	0.290446	2.917606	1	3.553084	-0.682324	2.945632
1	5.895351	-0.010150	1.541842	1	5.705159	-0.606661	1.707833
1	5.697195	-0.898038	-0.769977	1	5.694014	-0.689341	-0.775117
1	3.480554	-1.453190	-1.695074	1	3.556984	-0.839953	-1.996913
1	-0.088729	-0.259753	-2.329585	1	-0.238580	0.419832	-2.271501
1	0.554221	1.540933	1.068753	1	0.158024	1.279305	1.734411
1	-2.118055	-1.291481	1.570038	1	-2.101158	-1.825189	0.917095
1	-0.809045	2.583378	0.741535	1	-0.631657	2.697205	1.115593
6	0.944051	2.996126	-0.478976	6	1.449926	2.563599	0.534920
6	2.077609	2.239471	-1.159904	1	1.594832	3.412673	1.209627
1	2.355403	0.521682	-2.442837	1	2.258161	1.855850	0.739510
1	1.190160	1.678596	-3.043075	6	1.520362	3.000471	-0.922460
1	1.340345	3.722286	0.237507	1	1.269293	2.099585	-2.874156
1	0.369230	3.566439	-1.219856	1	2.412946	1.274019	-1.835478
1	2.724333	2.935548	-1.704445	1	0.691777	3.687402	-1.141643
1	2.700280	1.763300	-0.396751	1	2.446329	3.551283	-1.114678
<i>a-re</i> Et = -1148.4773665 (-1148.7607456) (-1148.792993)				<i>a-re(II)</i> Et = -1148.4753125 (-1148.7583703) (-1148.791428)			

NImag= 1(-346.52 cm ⁻¹)				NImag= 1(-353.6 cm ⁻¹)			
6	-3.376214	-1.282208	0.656633	6	-3.363576	-1.239403	0.691371
6	-2.920936	-0.407452	-0.339099	6	-2.945762	-0.398331	-0.348612
6	-3.852215	0.427277	-0.969060	6	-3.906192	0.386987	-0.996577
6	-5.200046	0.377776	-0.628812	6	-5.246294	0.324686	-0.627728
6	-5.638389	-0.499155	0.358422	6	-5.646984	-0.516740	0.404769
6	-4.720548	-1.327382	1.001696	6	-4.699821	-1.298226	1.064215
6	-1.505399	-0.362375	-0.758534	6	-1.535272	-0.343101	-0.792253
6	-0.638087	0.719662	0.876683	6	-0.659472	0.765280	0.769298
6	-1.469781	1.978236	1.024109	6	-1.476688	2.047287	0.871714
6	-0.822700	-1.572451	-0.915077	6	-0.853003	-1.555850	-0.945334
7	0.408258	-1.595524	-1.497561	7	0.384225	-1.576495	-1.510835
8	1.099140	-2.626429	-1.459088	8	1.078233	-2.605730	-1.463442
6	0.740887	0.844730	0.596844	6	0.727919	0.848018	0.508149
6	1.266566	2.091749	-0.074274	6	1.323096	2.075576	-0.134293
7	1.620663	-0.132106	0.873648	7	1.586988	-0.133087	0.835502
6	3.089531	-0.011085	0.723390	6	3.058459	0.005772	0.747796
6	3.584524	-1.417544	1.070334	6	3.572720	-1.344595	1.260652
6	2.640345	-1.829154	2.190291	6	2.542584	-1.718082	2.315605
6	1.293571	-1.327720	1.682290	6	1.236605	-1.321833	1.640173
6	3.751994	0.464828	-0.581979	6	3.787598	0.348041	-0.564737
8	3.292075	0.096892	-1.756352	8	3.329672	-0.046348	-1.733367
8	4.774333	1.102657	-0.462146	8	4.856587	0.902214	-0.446622
8	0.825467	-0.531656	-2.054892	8	0.811343	-0.507449	-2.052919
1	2.914370	-1.326804	3.123877	1	2.699412	-1.135506	3.229696
1	2.627840	-2.905734	2.372152	1	2.557949	-2.778032	2.578062
1	3.455105	-2.072859	0.202607	1	3.559041	-2.073100	0.443062
1	4.638824	-1.404656	1.349680	1	4.593967	-1.255635	1.632171
1	3.455318	0.694933	1.477126	1	3.370701	0.796112	1.439164
1	0.608096	-1.055655	2.489164	1	0.443943	-1.076142	2.350136
1	0.822832	-2.084237	1.053851	1	0.896269	-2.124603	0.983237
1	-1.133227	-2.515461	-0.492216	1	-1.164589	-2.496092	-0.517228
1	-1.252345	0.411214	-1.475139	1	-1.304734	0.421644	-1.526696
1	-3.515273	1.109445	-1.743982	1	-3.600116	1.035735	-1.812003
1	-5.907128	1.026243	-1.135813	1	-5.976673	0.934785	-1.149116
1	-6.688629	-0.536390	0.628491	1	-6.690943	-0.563972	0.696803
1	-5.054665	-2.010667	1.775792	1	-5.004753	-1.954895	1.872673
1	-2.670797	-1.928487	1.170514	1	-2.634317	-1.849144	1.216999
1	2.378285	-0.319860	-1.783969	1	2.385222	-0.387550	-1.768467
1	-0.912354	-0.068974	1.570499	1	-0.948624	0.002745	1.483658
1	1.258410	1.910004	-1.155664	1	1.823773	1.791448	-1.062902
1	2.310973	2.260576	0.198250	1	2.108143	2.455932	0.533222
6	0.455175	3.346877	0.244824	6	0.313871	3.186473	-0.406457
6	-1.035848	3.094740	0.083905	6	-0.642644	3.319768	0.767521
1	-1.388120	2.336944	2.060958	1	-2.032224	2.030442	1.815148
1	-2.526997	1.739437	0.877214	1	-2.242968	2.076209	0.087011
1	-1.252236	2.820117	-0.956646	1	-0.069781	3.480007	1.690396
1	-1.606988	4.004640	0.295194	1	-1.300138	4.186507	0.645802
1	0.795003	4.158473	-0.405823	1	0.856534	4.117101	-0.596555
1	0.658579	3.663362	1.275577	1	-0.253137	2.961213	-1.317759
<i>s-si</i> Et = -1148.478284 (-1148.7610853) (-1148.789123) NImag=1(-326.97 cm ⁻¹)				<i>s-si(II)</i> Et = -1148.4769599 (-1148.7598037) (-1148.7882584) NImag=1(-334.44 cm ⁻¹)			
6	-0.320239	0.880473	-0.838089	6	-0.319919	0.880150	-0.819280
6	0.944471	1.267921	-0.355120	6	0.958717	1.247681	-0.344308
7	1.946266	0.371084	-0.286208	7	1.954915	0.350037	-0.304576
6	2.106333	-0.740657	-1.251618	6	2.072246	-0.795202	-1.237260
6	3.623279	-1.043354	-1.238292	6	3.578618	-1.138348	-1.232478
6	4.263770	0.159277	-0.546123	6	4.262384	0.084237	-0.625891
6	3.195565	0.564572	0.455010	6	3.233299	0.574471	0.379528
6	1.300576	-2.032496	-1.018638	6	1.240662	-2.062186	-0.957948

8	1.555433	-2.764599	0.057500	8	1.504760	-2.776038	0.125988
8	0.542790	-2.418301	-1.881146	8	0.459111	-2.447686	-1.799960
1	4.442184	0.972337	-1.257998	1	4.439460	0.851944	-1.386686
1	5.213406	-0.089967	-0.067839	1	5.219107	-0.158532	-0.158622
1	3.808433	-1.950447	-0.657539	1	3.748714	-2.013684	-0.600903
1	3.995099	-1.215375	-2.250035	1	3.926359	-1.381480	-2.238201
1	1.775222	-0.378891	-2.227375	1	1.738481	-0.453107	-2.219685
1	3.287363	1.581745	0.824468	1	3.355445	1.619242	0.651716
1	3.170544	-0.099851	1.331003	1	3.225977	-0.020690	1.303669
1	1.797566	-2.248956	0.887477	1	1.756022	-2.242935	0.947911
6	-1.149688	0.103022	0.902513	6	-1.153840	0.140660	0.888092
6	-0.287143	-0.887732	1.398298	6	-0.305804	-0.854940	1.414178
6	-1.283290	1.924529	-1.359679	6	-1.252017	1.944782	-1.379079
1	-1.137874	1.039679	1.452217	1	-1.147989	1.079696	1.434181
1	-0.394644	-1.938354	1.183435	1	-0.426057	-1.907925	1.219273
6	-2.483501	-0.322069	0.417983	6	-2.492500	-0.287682	0.412147
6	-2.652815	-1.447980	-0.399728	6	-2.665168	-1.413808	-0.404063
6	-3.923840	-1.836648	-0.804050	6	-3.938432	-1.805717	-0.798195
6	-5.044805	-1.112031	-0.403133	6	-5.058262	-1.084049	-0.388690
6	-4.887003	0.011740	0.401825	6	-4.897420	0.038832	0.416347
6	-3.614955	0.406759	0.802819	6	-3.622923	0.436710	0.807695
1	-1.788323	-2.013295	-0.736356	1	-1.802312	-1.978923	-0.745423
1	-4.038622	-2.709355	-1.438688	1	-4.055915	-2.678957	-1.431657
1	-6.035503	-1.420337	-0.721205	1	-6.050565	-1.394919	-0.699281
1	-5.753566	0.583124	0.718822	1	-5.762933	0.607282	0.741388
1	-3.495460	1.280652	1.436907	1	-3.501107	1.308041	1.445056
7	0.825064	-0.549723	2.109610	7	0.812522	-0.508690	2.104558
8	1.002686	0.613612	2.512103	8	0.996732	0.666234	2.474520
8	1.701482	-1.450870	2.334339	8	1.693479	-1.404845	2.343069
1	-0.361240	-0.065051	-1.373879	1	-0.366529	-0.068822	-1.346820
6	1.150271	2.673415	0.163909	6	1.214331	2.645276	0.171486
1	0.932866	2.688868	1.236791	1	1.550593	2.604389	1.208252
1	2.199228	2.960522	0.054253	1	2.038425	3.067058	-0.422655
6	0.280956	3.698462	-0.567866	6	-0.002512	3.559767	0.049287
6	-1.173669	3.256504	-0.628057	6	-0.680834	3.358617	-1.297244
1	-1.077592	2.080812	-2.428247	1	0.321037	4.596395	0.185083
1	-2.304459	1.535935	-1.308213	1	-0.712694	3.347291	0.857046
1	0.658824	3.835812	-1.589115	1	0.053387	3.518386	-2.097976
1	0.378846	4.665688	-0.064286	1	-1.478606	4.092201	-1.450129
1	-1.571265	3.162812	0.390542	1	-2.212315	1.911575	-0.851641
1	-1.785085	4.011381	-1.133093	1	-1.484449	1.690203	-2.418646
<i>s-re</i>				<i>s-re (II)</i>			
Et = -1148.4723658 (-1148.7566916) (-1148.7890888)				Et = -1148.4686631 (-1148.787317) (-1148.752974)			
NImag= 1(-335.03 cm ⁻¹)				NImag= 1(-362.4 cm ⁻¹)			
6	0.147282	-0.100032	-1.087314	6	0.178302	-0.168967	-1.071014
6	-1.093970	-0.731966	-0.819280	6	-1.104647	-0.732427	-0.803198
6	-1.072675	-2.225248	-0.735331	6	-1.250188	-2.231332	-0.748893
7	-2.225499	-0.049486	-0.592919	7	-2.195246	0.003142	-0.592114
6	-2.340397	1.405030	-0.747245	6	-2.258924	1.462593	-0.731035
6	-3.825799	1.707305	-0.449037	6	-3.744991	1.805872	-0.474553
6	-4.530935	0.366947	-0.625104	6	-4.484766	0.482072	-0.646397
6	-3.492467	-0.635420	-0.143801	6	-3.479474	-0.540508	-0.139830
6	-1.491988	2.279657	0.180072	6	-1.414196	2.298289	0.236265
8	-1.330196	1.887950	1.438818	8	-1.297809	1.884154	1.490206
8	-1.093505	3.349875	-0.213498	8	-0.984783	3.365499	-0.134345
1	-4.760388	0.185566	-1.680012	1	-4.705862	0.294299	-1.701951
1	-5.462451	0.301797	-0.059212	1	-5.424616	0.449527	-0.091790
1	-3.928526	2.048455	0.585444	1	-3.863303	2.166373	0.551410
1	-4.204382	2.497122	-1.098978	1	-4.087112	2.594389	-1.145750
1	-2.067646	1.683444	-1.769196	1	-1.946244	1.740754	-1.740985
1	-3.645794	-1.621684	-0.579722	1	-3.647207	-1.535928	-0.548458

1	-3.470406	-0.746531	0.947349	1	-3.457907	-0.624605	0.953830
1	-1.411109	0.904912	1.596124	1	-1.361756	0.890503	1.633741
1	-0.538468	-2.468491	0.198354	1	-1.530340	-2.519874	0.269627
6	1.089838	-0.058779	0.750748	6	1.084383	-0.067780	0.699833
1	0.473935	0.773933	1.059117	1	0.482850	0.772991	1.015185
6	0.942956	-1.204571	1.560038	6	0.954727	-1.194715	1.554057
1	0.108562	0.977994	-1.234634	1	0.168173	0.905673	-1.242982
7	-0.201250	-1.423603	2.282260	7	-0.198974	-1.439935	2.225634
8	-0.248117	-2.352868	3.093881	8	-0.282744	-2.397504	3.004812
8	-1.230209	-0.699211	2.074310	8	-1.230529	-0.700924	2.014943
6	2.450116	0.384008	0.360292	6	2.452463	0.376615	0.326968
6	2.655993	1.746086	0.101800	6	2.663991	1.736300	0.062963
6	3.914540	2.225075	-0.241677	6	3.928801	2.211323	-0.262354
6	4.992962	1.349823	-0.338806	6	5.007328	1.333817	-0.337602
6	4.801884	-0.006730	-0.089333	6	4.810780	-0.020922	-0.084763
6	3.543090	-0.485833	0.254848	6	3.545135	-0.495892	0.241478
1	1.819661	2.435673	0.181934	1	1.828510	2.428689	0.128191
1	4.053087	3.285095	-0.428064	1	4.072462	3.270171	-0.451570
1	5.976989	1.722186	-0.604657	1	5.996072	1.703650	-0.589264
1	5.637297	-0.696057	-0.159354	1	5.646026	-0.711923	-0.138088
1	3.416361	-1.545756	0.448399	1	3.411720	-1.554651	0.438410
1	1.714652	-1.931925	1.756065	1	1.731345	-1.915191	1.754446
6	1.077807	-0.777676	-2.082173	6	1.062946	-0.904939	-2.079216
1	-2.066902	-2.659932	-0.647605	1	-2.091685	-2.512070	-1.396075
6	-0.296693	-2.862580	-1.892870	6	-0.004703	-2.981694	-1.215133
6	1.113875	-2.295073	-1.953711	6	0.561765	-2.300350	-2.450346
1	0.738021	-0.510509	-3.093428	1	2.082265	-0.979826	-1.687864
1	2.083541	-0.360493	-1.983715	1	1.140424	-0.285405	-2.979509
1	1.650756	-2.576004	-1.040377	1	1.379485	-2.884091	-2.884079
1	1.669732	-2.726211	-2.792902	1	-0.219806	-2.235894	-3.219230
1	-0.274953	-3.947443	-1.747503	1	0.743704	-2.990134	-0.417101
1	-0.820619	-2.679619	-2.839606	1	-0.273130	-4.023805	-1.413103

Table S24. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Propanal (**1**) to Nitrostyrene Using Solvent-Assisted Pathway (C₂ model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1263.1663156 (-1263.5056011) (-1263.5333137) NImag=1(-304.02 cm ⁻¹)				<i>a-re</i> Et = -1263.1631043 (-1263.5024845) (-1263.532496) NImag= 1(-298.53 cm ⁻¹)			
6	-4.203454	-1.444170	-0.287070	6	3.992577	1.245837	-0.268142
6	-3.027117	-0.691542	-0.385367	6	2.836893	0.473559	-0.438954
6	-3.091347	0.577043	-0.976933	6	2.947116	-0.748132	-1.115907
6	-4.299066	1.070057	-1.456796	6	4.173956	-1.185717	-1.602328
6	-5.462288	0.309573	-1.357000	6	5.315458	-0.409904	-1.421485
6	-5.410460	-0.951516	-0.771750	6	5.219092	0.808838	-0.755031
6	-1.754771	-1.266335	0.116075	6	1.503112	0.903396	0.053112
6	-0.622894	-1.173097	-0.720579	6	1.305332	0.102357	1.854557
7	0.490336	-1.897366	-0.445997	6	2.667436	0.075787	2.499997
8	0.572525	-2.585499	0.595006	6	1.213252	2.280899	0.217135
8	1.464702	-1.829352	-1.256452	7	-0.081956	2.691155	0.217665
6	-1.442604	-0.499059	1.949153	8	-0.375571	3.892145	0.296841
6	-2.784464	-0.514600	2.634471	6	0.694969	-1.120437	1.517532
6	-0.851107	0.734838	1.660255	7	-0.607550	-1.347393	1.489535
7	0.445202	0.935229	1.472605	6	-1.199751	-2.519112	0.807794
6	0.960273	2.223199	0.956990	6	-2.707628	-2.338654	1.005878
6	2.463046	2.184762	1.254101	6	-2.816923	-1.452604	2.250113
6	2.606504	1.121919	2.349317	6	-1.627184	-0.507631	2.120073
6	1.530175	0.100226	2.002467	6	-0.644391	-2.585347	-0.625560
6	0.480334	2.389138	-0.496123	8	-1.127848	-1.780858	-1.551418
8	1.182064	1.879571	-1.484881	8	0.295085	-3.317848	-0.851176
8	-0.583107	2.941870	-0.687106	8	-0.995868	1.797478	0.127735
1	2.411614	1.555602	3.335608	1	-2.723305	-2.050451	3.162613
1	3.598677	0.667522	2.362713	1	-3.765332	-0.913710	2.295367
1	3.041684	1.901846	0.372856	1	-3.161529	-1.828645	0.153097
1	2.817300	3.167822	1.571002	1	-3.202910	-3.304467	1.124581
1	0.468603	3.029949	1.507265	1	-0.838737	-3.427560	1.298126
1	1.164242	-0.462459	2.862540	1	-1.253156	-0.148402	3.082228
1	1.883674	-0.616599	1.258013	1	-1.823536	0.365549	1.485365
1	-3.433279	0.287919	2.273224	1	3.156775	1.049661	2.409970
1	-3.304343	-1.461750	2.462187	1	2.584122	-0.154317	3.567820
1	-2.671045	-0.398706	3.718143	1	3.320582	-0.671269	2.041904
1	-1.862633	-2.237626	0.596623	1	1.928445	3.070603	0.383753
1	-0.544646	-0.528008	-1.581517	1	0.682341	0.382634	-0.430578
1	-2.200667	1.193011	-1.061055	1	2.063854	-1.360347	-1.277668
1	-4.328571	2.055782	-1.909712	1	4.233117	-2.132288	-2.129596
1	-6.402976	0.698897	-1.733118	1	6.273304	-0.749208	-1.802595
1	-6.309195	-1.554932	-0.692654	1	6.101670	1.425314	-0.616836
1	-4.166342	-2.434566	0.157826	1	3.936827	2.202896	0.239619
1	-0.755595	-1.290916	2.240742	1	-1.923121	-1.208046	-1.327358
1	2.033529	1.394684	-1.262332	1	0.630684	0.845247	2.271581
8	3.523735	0.734806	-1.444431	8	-3.336207	-0.392597	-1.485577
1	3.693820	-0.100472	-0.937479	1	-3.349231	0.585833	-1.278597
6	3.661876	0.444186	-2.826860	6	-3.812325	-0.562370	-2.809401
1	4.694031	0.162371	-3.064597	1	-4.873987	-0.300411	-2.880988
1	2.983416	-0.357932	-3.134700	1	-3.248089	0.046944	-3.523639
1	3.412477	1.351156	-3.380166	1	-3.692291	-1.614249	-3.075752
8	3.766133	-1.542594	-0.054679	8	-3.295498	2.213041	-1.058227
1	2.914443	-1.905393	-0.416542	1	-2.397843	2.282213	-0.639792
6	4.779591	-2.520326	-0.145271	6	-4.225726	2.839375	-0.201785
1	5.707452	-2.075837	0.222029	1	-4.313826	2.329613	0.767870
1	4.544102	-3.393853	0.473762	1	-3.947629	3.882802	-0.018944

1	4.940326	-2.857320	-1.177406	1	-5.201689	2.819468	-0.692267
1	-1.480652	1.588582	1.416364	1	1.306695	-1.923475	1.109291
<i>s-si</i> Et = -1263.1700629 (-1263.5087355) (-1263.5344231) NImag=1(-327.17 cm ⁻¹)				<i>s-si(II)</i> Et = -1263.1683013 (-1263.5060636) (-1263.5322362) NImag=1(-337.24 cm ⁻¹)			
6	1.505458	1.154076	-1.333678	6	-1.313992	0.926841	1.425735
6	0.175484	1.103151	-1.751331	6	0.039410	0.848696	1.759090
7	-0.902383	1.367726	-1.010652	7	1.074693	1.310810	1.056729
6	-0.890149	2.204475	0.202326	6	0.950268	2.278354	-0.044066
6	-2.347327	2.683805	0.342264	6	2.373909	2.837914	-0.204263
6	-2.940605	2.521263	-1.058855	6	3.009082	2.633626	1.171254
6	-2.253816	1.263299	-1.573555	6	2.438805	1.290498	1.608202
6	-0.324773	1.502625	1.448925	6	0.360379	1.700331	-1.340645
8	-1.027329	0.549909	2.027813	8	1.036068	0.768695	-1.980701
8	0.752544	1.846282	1.888400	8	-0.691784	2.131633	-1.762546
1	-2.681779	3.376446	-1.692144	1	2.695656	3.422048	1.863737
1	-4.027978	2.424225	-1.041867	1	4.100094	2.625467	1.131771
1	-2.897089	2.053993	1.045380	1	2.925908	2.259475	-0.948471
1	-2.383778	3.710594	0.711605	1	2.351677	3.880571	-0.526714
1	-0.208756	3.041853	0.024859	1	0.247858	3.059794	0.263687
1	-2.191915	1.208704	-2.662011	1	2.390704	1.168168	2.692312
1	-2.743388	0.348793	-1.225313	1	3.008278	0.453026	1.200899
1	-1.915203	0.318347	1.624369	1	1.871539	0.430471	-1.533531
6	1.828323	-0.806298	-0.680020	6	-1.753584	-0.898210	0.506740
6	0.755282	-1.285481	0.082520	6	-0.800930	-1.289693	-0.441011
6	2.561462	1.334174	-2.395194	6	-2.288827	0.933347	2.580008
1	2.680587	2.390503	-2.661307	1	-2.356227	1.926971	3.037129
1	3.534845	0.975439	-2.050528	1	-3.294213	0.657802	2.252950
1	2.302462	0.791108	-3.310652	1	-1.981719	0.231878	3.363613
1	1.845033	-1.167090	-1.705049	1	-1.686306	-1.411598	1.461973
1	0.729032	-1.344055	1.158571	1	-0.915389	-1.192040	-1.508603
6	3.155045	-0.685543	-0.033731	6	-3.128074	-0.639878	0.016219
6	3.319267	-0.112868	1.234902	6	-3.371157	0.156007	-1.111476
6	4.577228	-0.064508	1.822863	6	-4.669021	0.338578	-1.572739
6	5.688804	-0.583021	1.161168	6	-5.742608	-0.265672	-0.921234
6	5.537463	-1.146657	-0.101804	6	-5.512033	-1.051759	0.203386
6	4.280758	-1.191128	-0.696363	6	-4.214505	-1.231694	0.671861
1	2.466463	0.319020	1.750248	1	-2.545036	0.650949	-1.614383
1	4.690090	0.386312	2.803621	1	-4.842667	0.961000	-2.444650
1	6.668564	-0.542542	1.626434	1	-6.754257	-0.119810	-1.286268
1	6.396694	-1.552482	-0.626284	1	-6.341431	-1.526064	0.718349
1	4.163480	-1.640607	-1.678302	1	-4.036329	-1.853023	1.544937
7	-0.384736	-1.682622	-0.546845	7	0.391062	-1.815490	-0.048196
8	-0.498081	-1.560072	-1.786327	8	0.673145	-1.846764	1.192496
8	-1.320868	-2.168864	0.153733	8	1.193380	-2.245863	-0.897939
1	1.702262	1.629783	-0.375118	1	-1.575113	1.557836	0.578920
8	-3.499322	-0.164280	1.548444	8	3.351930	-0.186938	-1.229445
8	-3.753557	-1.643619	-0.664235	8	3.408414	-1.828088	0.940399
1	-3.706018	-0.711497	0.748207	1	3.344055	-0.857614	-0.498499
1	-2.820034	-1.973323	-0.574492	1	2.439003	-1.956661	1.077262
6	-3.681478	-0.983890	2.691897	6	3.745794	-0.838159	-2.427687
1	-3.372799	-0.406447	3.564864	1	3.705801	-0.100593	-3.231522
1	-4.735164	-1.261797	2.810699	1	4.773342	-1.211208	-2.348327
1	-3.070198	-1.891149	2.637023	1	3.072808	-1.665852	-2.670268
6	-4.615439	-2.724181	-0.946635	6	3.979772	-3.103174	0.719831
1	-5.636409	-2.337523	-0.984264	1	5.022095	-2.956186	0.427321
1	-4.380533	-3.176244	-1.917478	1	3.961880	-3.709397	1.634028
1	-4.566580	-3.505293	-0.177284	1	3.455007	-3.643712	-0.075247
1	-0.045075	0.764586	-2.758123	1	0.317369	0.353938	2.684528
<i>s-re</i> Et = -1263.1671158 (-1263.5056609)							

(-1263.5331574)			
(NImag= 1(-345.61 cm ⁻¹))			
6	1.150288	-0.504663	1.580789
6	-0.226855	-0.393119	1.816475
7	-1.209163	-1.160576	1.346962
6	-1.017114	-2.397653	0.590921
6	-2.441031	-2.969667	0.462332
6	-3.186508	-2.372900	1.656666
6	-2.608522	-0.966164	1.743865
6	-0.325244	-2.218391	-0.765590
8	-0.795502	-1.303995	-1.597672
8	0.625072	-2.910159	-1.055572
1	-2.962151	-2.932957	2.570433
1	-4.269029	-2.367386	1.515275
1	-2.900581	-2.618921	-0.465096
1	-2.429570	-4.060761	0.449576
1	-0.366386	-3.069898	1.160123
1	-2.651002	-0.536896	2.747432
1	-3.108612	-0.283434	1.052509
1	-1.630294	-0.824202	-1.314930
6	1.554795	0.787953	-0.018422
1	0.786207	0.311355	-0.616598
6	1.280688	2.120165	0.334103
1	1.485098	-1.407627	1.073506
7	-0.010812	2.531598	0.448597
8	-0.301352	3.715288	0.673032
8	-0.915046	1.638585	0.340793
6	2.938750	0.398241	-0.368478
6	3.142375	-0.697232	-1.219310
6	4.426004	-1.075847	-1.593882
6	5.531628	-0.372900	-1.123011
6	5.344453	0.712106	-0.270563
6	4.061669	1.092867	0.104693
1	2.289387	-1.261858	-1.583688
1	4.560239	-1.924762	-2.256391
1	6.533743	-0.669275	-1.416202
1	6.199887	1.265859	0.103156
1	3.936269	1.940448	0.770234
1	2.009123	2.884874	0.550516
6	2.060308	0.009523	2.669988
1	3.089740	0.090213	2.311960
1	1.741180	0.999546	3.012449
1	2.068229	-0.657800	3.539405
1	-3.274794	0.740341	-1.028328
8	-3.149800	-0.175987	-1.398060
8	-3.417773	2.213742	-0.234845
1	-2.486641	2.225250	0.101627
6	-3.618784	-0.198335	-2.732850
1	-3.414582	-1.189677	-3.142023
1	-4.699332	-0.018385	-2.774992
1	-3.110164	0.543979	-3.359485
6	-3.647157	3.414015	-0.945591
1	-4.685910	3.408440	-1.283699
1	-3.491659	4.286715	-0.302606
1	-2.992466	3.511016	-1.821427
1	-0.569362	0.390869	2.484118

Table S25. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent-Assisted Pathway (C₂ model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1341.7769929 (-1342.1349609) (-1342.1572755) NImag=1(-285.99 cm ⁻¹)				<i>a-re</i> Et = -1341.7753852 (-1342.134044) (-1342.1599366) NImag= 1(-293.56 cm ⁻¹)			
6	3.908945	-1.905424	-0.224200	6	-3.486335	1.736017	0.350092
6	2.739580	-1.296669	0.249678	6	-2.290687	1.081445	0.676548
6	2.819058	-0.518126	1.413596	6	-2.322794	0.087183	1.663118
6	4.029254	-0.360823	2.077671	6	-3.513086	-0.245636	2.300408
6	5.183878	-0.974584	1.596111	6	-4.695213	0.406301	1.960859
6	5.119848	-1.748695	0.441827	6	-4.676713	1.399227	0.984406
6	1.466361	-1.520559	-0.469613	6	-0.997721	1.422264	0.036813
6	0.280277	-1.656225	0.271691	6	-0.904405	0.453579	-1.737344
7	-0.849869	-2.104077	-0.337612	6	-2.092138	0.915892	-2.536808
8	-0.872195	-2.344921	-1.562593	6	-0.734367	2.774496	-0.263020
8	-1.896839	-2.227421	0.366116	7	0.542227	3.173370	-0.535695
6	1.260586	-0.044498	-1.884765	8	0.818283	4.368871	-0.672817
6	2.510427	-0.117060	-2.722349	6	-0.740863	-0.895325	-1.358182
6	0.940093	1.092473	-1.121919	6	-1.926332	-1.801727	-1.174703
6	2.011766	2.033120	-0.639732	6	-2.198353	-2.616497	-2.447886
6	2.140832	3.251235	-1.564594	7	0.489068	-1.386020	-1.116986
7	-0.336110	1.324798	-0.762356	6	0.763328	-2.668533	-0.444617
6	-0.745147	2.319186	0.253848	6	2.285647	-2.846511	-0.579494
6	-2.214129	2.643509	-0.071494	6	2.647009	-2.001968	-1.798644
6	-2.432571	2.082468	-1.478502	6	1.720713	-0.800412	-1.671826
6	-1.513266	0.869419	-1.517764	6	0.281538	-2.702244	1.013177
6	-0.464677	1.768619	1.664773	8	0.698392	-1.741395	1.829192
8	-1.264931	0.848912	2.169001	8	-0.473299	-3.566973	1.391000
8	0.515453	2.144969	2.272939	8	1.436076	2.268046	-0.646058
1	-2.127396	2.808308	-2.239427	1	2.432256	-2.545031	-2.724994
1	-3.471811	1.804386	-1.663969	1	3.699460	-1.711035	-1.810735
1	-2.894952	2.160916	0.632439	1	2.796647	-2.446264	0.299766
1	-2.391237	3.719293	-0.010917	1	2.548946	-3.900894	-0.680547
1	-0.123345	3.209702	0.161297	1	0.232018	-3.479226	-0.949440
1	-1.217857	0.583452	-2.526322	1	1.497935	-0.332054	-2.632103
1	-1.985505	0.007133	-1.044238	1	2.118328	-0.029362	-1.008525
1	3.408178	0.210920	-2.193186	1	-2.145116	2.008925	-2.498418
1	2.682608	-1.147684	-3.047551	1	-1.994600	0.636007	-3.592024
1	2.415615	0.488550	-3.631386	1	-3.042791	0.520425	-2.170864
1	1.541062	-2.205904	-1.311479	1	-1.464195	3.568374	-0.279100
1	0.155486	-1.388123	1.308528	1	-0.142037	0.891485	0.445144
1	1.938335	-0.017598	1.803181	1	-1.404379	-0.420512	1.942782
1	4.067929	0.246863	2.975879	1	-3.512694	-1.016222	3.064405
1	6.126810	-0.850154	2.118853	1	-5.624997	0.146043	2.456423
1	6.011278	-2.236616	0.060622	1	-5.592251	1.917859	0.717908
1	3.861642	-2.524245	-1.115329	1	-3.487812	2.515350	-0.404684
1	0.416587	-0.578561	-2.315129	1	1.465773	-1.181717	1.511703
1	2.961098	1.496604	-0.611320	1	0.018367	0.965601	-1.995000
1	1.816909	2.353098	0.386030	1	-2.800063	-1.193479	-0.935235
1	1.210146	3.825384	-1.612820	1	-1.787686	-2.481064	-0.331390
1	2.926406	3.917804	-1.198510	1	-1.346751	-3.250535	-2.711877
1	2.398449	2.952845	-2.584582	1	-3.064306	-3.265855	-2.294994
1	-2.102478	0.623315	1.666708	1	-2.407470	-1.965935	-3.300994
8	-3.693467	0.197635	1.451242	8	2.943474	-0.430718	1.599078
1	-3.922113	-0.322520	0.639767	1	3.190715	0.454686	1.215060
6	-4.022557	-0.597118	2.579985	6	3.351853	-0.436463	2.956718
1	-5.103910	-0.767955	2.635875	1	4.444171	-0.403141	3.039720

1	-3.501122	-1.559464	2.555649	1	2.930232	0.410015	3.509867
1	-3.709935	-0.049116	3.470350	1	2.993036	-1.363075	3.408087
8	-4.087424	-1.302604	-0.744433	8	3.641686	1.977424	0.725836
1	-3.289498	-1.853014	-0.538905	1	2.853677	2.320853	0.233788
6	-5.177589	-2.140649	-1.060166	6	4.785928	2.156954	-0.080631
1	-6.049517	-1.504773	-1.229518	1	4.697875	1.650263	-1.050861
1	-4.985213	-2.715209	-1.973940	1	4.978475	3.220361	-0.261703
1	-5.411395	-2.842855	-0.249535	1	5.641207	1.737397	0.453863
<i>s-si</i> Et = -1341.7775155 (-1342.1350957) (-1342.1594584) (NImag=1(-296.3 cm ⁻¹))				<i>s-si(II)</i> Et =-1341.7769898 (-1342.133734) (-1342.1585245) NImag=1(-310.37 cm ⁻¹)			
6	1.501561	1.437032	0.349029	6	1.291803	1.471828	0.010523
6	0.211794	1.855576	-0.015634	6	-0.045931	1.726819	-0.344373
7	-0.881964	1.369165	0.610178	7	-1.071029	1.431788	0.481398
6	-0.840640	0.794599	1.972490	6	-0.884178	1.132305	1.914434
6	-2.277397	0.947852	2.509213	6	-2.280026	1.320090	2.533630
6	-2.919835	1.992679	1.600463	6	-2.992150	2.254358	1.562407
6	-2.261575	1.729197	0.253638	6	-2.474875	1.790064	0.208191
6	-0.315344	-0.648821	2.076126	6	-0.288018	-0.246577	2.243492
8	-1.050884	-1.641035	1.615854	8	-0.973013	-1.325262	1.925174
8	0.753739	-0.859822	2.610508	8	0.769026	-0.316113	2.835057
1	-2.678341	3.005770	1.939992	1	-2.699918	3.295196	1.739198
1	-4.006645	1.897039	1.555561	1	-4.079769	2.186674	1.631633
1	-2.826727	0.008044	2.425420	1	-2.809011	0.365522	2.571850
1	-2.266465	1.235929	3.562380	1	-2.206625	1.711420	3.550128
1	-0.132659	1.385823	2.559906	1	-0.170657	1.854062	2.323919
1	-2.280865	2.601316	-0.394788	1	-2.535226	2.570491	-0.546816
1	-2.737255	0.907783	-0.291494	1	-3.026391	0.922900	-0.161232
1	-1.938565	-1.414324	1.211076	1	-1.821857	-1.187087	1.403614
6	1.802431	-0.206716	-0.979148	6	1.752047	-0.410921	-0.885118
6	0.739370	-1.112555	-0.926863	6	0.834340	-1.420251	-0.581571
6	2.707514	2.305988	0.089035	6	2.395551	2.337934	-0.550249
1	2.682290	3.223397	0.688896	1	2.345818	3.358961	-0.153983
1	3.617821	1.768451	0.359994	1	3.368831	1.932044	-0.270471
1	2.807185	2.605106	-0.959387	1	2.373152	2.409650	-1.642626
1	1.795988	0.452501	-1.842881	1	1.651657	0.022947	-1.876098
1	0.724940	-2.024189	-0.351982	1	0.980418	-2.177524	0.171552
6	3.140351	-0.660839	-0.541905	6	3.141174	-0.600705	-0.408470
6	3.331395	-1.403520	0.631279	6	3.425322	-0.983526	0.909445
6	4.601356	-1.847943	0.978647	6	4.738965	-1.203214	1.306237
6	5.697983	-1.562561	0.167366	6	5.786781	-1.048635	0.400761
6	5.519390	-0.819768	-0.995743	6	5.514679	-0.663000	-0.908477
6	4.251145	-0.367148	-1.342720	6	4.202137	-0.433710	-1.306924
1	2.489435	-1.608052	1.285674	1	2.618149	-1.085908	1.629100
1	4.735338	-2.417557	1.892694	1	4.944906	-1.494161	2.331345
1	6.687185	-1.913459	0.443797	1	6.810549	-1.223484	0.715959
1	6.366993	-0.590881	-1.633964	1	6.323842	-0.539013	-1.621228
1	4.113534	0.208476	-2.253544	1	3.991900	-0.136798	-2.330432
7	-0.405971	-0.856732	-1.622288	7	-0.357621	-1.504485	-1.235290
8	-0.538200	0.206097	-2.263486	8	-0.672909	-0.595848	-2.066857
8	-1.325489	-1.724839	-1.600685	8	-1.125115	-2.457667	-1.010708
1	1.578160	0.835430	1.250334	1	1.466673	1.151504	1.033954
6	0.031326	2.873141	-1.115206	6	-0.364804	2.364291	-1.674481
1	-0.817349	2.611846	-1.746447	1	-1.290547	1.950476	-2.076088
1	0.901461	2.820408	-1.771836	1	0.410942	2.069133	-2.383782
6	-0.106203	4.299695	-0.570427	6	-0.436987	3.894696	-1.609760
1	-0.210698	5.009887	-1.395636	1	-0.679497	4.299588	-2.596330
1	-0.983435	4.408003	0.075135	1	-1.202696	4.243286	-0.909980
1	0.769956	4.592188	0.014219	1	0.515032	4.328201	-1.294977
8	-3.540993	-1.592546	0.806004	8	-3.319375	-1.355630	0.773960
8	-3.747162	-0.695341	-1.701411	8	-3.379180	-0.753884	-1.868325

1	-3.738533	-1.271832	-0.110614	1	-3.327955	-1.224397	-0.209815
1	-2.818665	-0.985439	-1.900102	1	-2.407919	-0.746511	-2.054247
6	-3.756452	-2.994545	0.828176	6	-3.702617	-2.694055	1.050372
1	-3.462048	-3.358862	1.813768	1	-3.635157	-2.839591	2.130216
1	-4.815111	-3.230785	0.669551	1	-4.737879	-2.874825	0.738825
1	-3.152701	-3.506136	0.070829	1	-3.039713	-3.408737	0.553807
6	-4.601587	-1.084713	-2.753985	6	-3.965892	-1.727970	-2.709457
1	-5.619949	-0.797162	-2.482729	1	-5.011783	-1.839814	-2.413972
1	-4.336269	-0.577311	-3.689053	1	-3.937822	-1.413753	-3.760236
1	-4.580045	-2.168309	-2.927251	1	-3.460290	-2.695250	-2.615630
<i>s-re</i>							
Et = -1341.7771385 (-1342.1349224)							
(-1342.1602479)							
NImag= 1(-322.21 cm ⁻¹)							
6	1.156681	-0.374597	1.386459				
6	-0.219718	-0.161601	1.629397				
6	-0.655951	1.070885	2.377950				
7	-1.174607	-1.025601	1.242246				
6	-0.901475	-2.338922	0.646765				
6	-2.289104	-2.992556	0.518601				
6	-3.124936	-2.289364	1.582647				
6	-2.606021	-0.858699	1.535942				
6	-0.170111	-2.319541	-0.700647				
8	-0.649755	-1.560331	-1.670203				
8	0.811514	-3.010337	-0.864925				
1	-2.938954	-2.723969	2.570489				
1	-4.196664	-2.343940	1.381457				
1	-2.710135	-2.784933	-0.468261				
1	-2.227792	-4.074648	0.646435				
1	-0.252247	-2.909606	1.318917				
1	-2.745152	-0.339594	2.483483				
1	-3.091425	-0.271690	0.751198				
1	-1.513089	-1.088004	-1.482515				
1	-1.618537	1.417581	1.999403				
1	0.058688	1.866650	2.147311				
6	1.616826	0.720814	-0.370485				
1	0.913743	0.127405	-0.942973				
6	1.261364	2.074942	-0.252387				
1	1.422021	-1.347581	0.980422				
7	-0.043956	2.438000	-0.406161				
8	-0.391724	3.627305	-0.380727				
8	-0.896959	1.505768	-0.553171				
6	3.035245	0.349412	-0.566012				
6	3.337374	-0.869820	-1.188572				
6	4.656574	-1.236963	-1.428091				
6	5.699938	-0.398219	-1.046630				
6	5.414379	0.812139	-0.419364				
6	4.096635	1.181252	-0.179858				
1	2.532094	-1.536806	-1.482197				
1	4.867198	-2.183133	-1.916058				
1	6.729658	-0.684983	-1.235139				
1	6.220609	1.472961	-0.116903				
1	3.895622	2.126499	0.312833				
1	1.928265	2.900553	-0.063177				
6	2.174623	0.165353	2.363560				
1	3.182915	-0.019250	1.988372				
1	2.075459	1.244225	2.520103				
1	2.099880	-0.323453	3.341652				
6	-0.720756	0.878543	3.898161				
1	0.253609	0.617821	4.316041				
1	-1.052224	1.805622	4.373748				
1	-1.422729	0.088649	4.182747				

1	-3.306569	0.328121	-1.439128
8	-3.088026	-0.589661	-1.748827
8	-3.480886	1.860534	-0.739768
1	-2.503125	1.991434	-0.640688
6	-3.342550	-0.668332	-3.139337
1	-3.013830	-1.650832	-3.482856
1	-4.413089	-0.563429	-3.351634
1	-2.791424	0.095789	-3.700085
6	-4.034546	2.982619	-1.395023
1	-5.112239	2.823839	-1.477625
1	-3.858374	3.899928	-0.822610
1	-3.622362	3.121693	-2.402840

Table S26. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Cyclohexanone (**3**) to Nitrostyrene Using Solvent-Assisted Pathway (C_2 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**/mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**/mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1379.8835518 (-1380.2472712) (-1380.2735435) NImag=1(-291.89 cm ⁻¹)				<i>a-si (II)</i> Et = -1379.883306 (-1380.2470597) (-1380.273237) NImag=1(-293.67 cm ⁻¹)			
6	3.706694	-1.995440	0.132528	6	3.721385	-2.000342	-0.266142
6	2.526963	-1.319146	0.469256	6	2.563763	-1.382315	0.224756
6	2.533165	-0.497090	1.605241	6	2.606179	-0.806355	1.503101
6	3.687176	-0.346800	2.364111	6	3.775532	-0.838539	2.253909
6	4.857268	-1.016420	2.010110	6	4.922149	-1.448492	1.749506
6	4.862029	-1.845945	0.893505	6	4.889963	-2.033992	0.487242
6	1.313709	-1.519611	-0.357898	6	1.335121	-1.399818	-0.598835
6	0.077067	-1.645926	0.312315	6	0.103328	-1.626609	0.041401
7	-1.012977	-2.093894	-0.358133	7	-0.991197	-1.948179	-0.696022
8	-0.960511	-2.351549	-1.580067	8	-0.944384	-1.984634	-1.943255
8	-2.105746	-2.197218	0.280647	8	-2.079581	-2.163612	-0.080950
6	1.202268	-0.099588	-1.763027	6	1.245607	0.310228	-1.725920
6	2.480053	-0.137966	-2.584724	6	2.555875	0.429032	-2.477729
6	0.861544	1.076928	-1.061910	6	0.855234	1.325362	-0.829345
6	1.919653	2.055478	-0.623719	6	1.908550	2.181749	-0.178496
7	-0.413516	1.320132	-0.720567	7	-0.438770	1.487930	-0.501924
6	-0.822733	2.372182	0.234286	6	-0.923705	2.277022	0.650395
6	-2.273797	2.719680	-0.147212	6	-2.382124	2.631740	0.312325
6	-2.483258	2.064325	-1.515405	6	-2.531688	2.288169	-1.172569
6	-1.593816	0.831198	-1.450041	6	-1.578044	1.116312	-1.354892
6	-0.593233	1.865932	1.670107	6	-0.661478	1.468735	1.935505
8	-1.429058	0.979106	2.177425	8	-1.503203	0.513798	2.284007
8	0.378860	2.238340	2.292534	8	0.349328	1.678434	2.571319
1	-2.149588	2.726966	-2.320645	1	-2.219588	3.128882	-1.800571
1	-3.524858	1.794145	-1.698683	1	-3.553668	2.014471	-1.441217
1	-2.983399	2.311267	0.575156	1	-3.086784	2.047663	0.907277
1	-2.415905	3.802006	-0.168631	1	-2.576980	3.685362	0.522848
1	-0.168059	3.236872	0.123799	1	-0.321661	3.179185	0.756860
1	-1.301095	0.450060	-2.426490	1	-1.245024	0.978164	-2.382283
1	-2.088852	0.028825	-0.902513	1	-2.043322	0.190009	-1.015940
1	1.447503	-2.238434	-1.164847	1	1.441635	-1.931034	-1.542210
1	-0.105766	-1.368348	1.337992	1	-0.076671	-1.538433	1.100889
1	1.638877	0.040915	1.901746	1	1.728413	-0.320576	1.918265
1	3.669070	0.298179	3.236596	1	3.787378	-0.383730	3.239116
1	5.756589	-0.896300	2.605598	1	5.832879	-1.471762	2.339286
1	5.762835	-2.384084	0.616026	1	5.773515	-2.522855	0.089205
1	3.710951	-2.665497	-0.722426	1	3.697696	-2.473157	-1.243725
1	0.367120	-0.633670	-2.211577	1	0.444761	-0.142194	-2.306900
1	1.912791	2.161847	0.466054	1	2.310989	1.660621	0.697580

1	-2.251269	0.751944	1.650609	1	-2.337210	0.398764	1.740899
8	-3.827427	0.308939	1.376847	8	-3.918984	0.012047	1.404948
1	-4.048311	-0.195227	0.553325	1	-4.112994	-0.345547	0.501904
6	-4.176800	-0.508312	2.484046	6	-4.264717	-0.989082	2.349404
1	-5.259582	-0.675042	2.519780	1	-5.341745	-1.191927	2.327540
1	-3.659022	-1.472016	2.445772	1	-3.713929	-1.917254	2.165733
1	-3.875789	0.019874	3.390266	1	-4.001661	-0.612050	3.339126
8	-4.238059	-1.167618	-0.842924	8	-4.239377	-1.042198	-1.055121
1	-3.461040	-1.749080	-0.640348	1	-3.443414	-1.621021	-0.939810
6	-5.363138	-1.964202	-1.144103	6	-5.325090	-1.813156	-1.521779
1	-6.212455	-1.295925	-1.303389	1	-6.194879	-1.156113	-1.592722
1	-5.204306	-2.546249	-2.059649	1	-5.120959	-2.225939	-2.516804
1	-5.612975	-2.656683	-0.329995	1	-5.569314	-2.641633	-0.844320
1	1.626782	3.039733	-1.018835	1	1.476862	3.108526	0.202684
6	3.319139	1.710925	-1.133113	6	3.040010	2.504221	-1.158329
6	3.254122	1.179049	-2.557632	6	3.629896	1.231812	-1.747143
1	3.942922	2.608349	-1.073225	1	2.933073	-0.572015	-2.720114
1	3.780137	0.961623	-0.482967	1	2.347359	0.903755	-3.447298
1	2.759233	1.917421	-3.202735	1	4.444556	1.469999	-2.439396
1	4.259713	1.028876	-2.963330	1	4.062934	0.631396	-0.941526
1	2.226747	-0.404462	-3.616885	1	3.807876	3.081399	-0.633183
1	3.137539	-0.937074	-2.220668	1	2.654778	3.146007	-1.961339
<i>a-re</i> Et = -1379.8807824 (-1380.24553) (-1380.2759758) NImag= 1(-295.24 cm ⁻¹)				<i>a-re (II)</i> Et = -1379.881875 (-1380.2455464) (-1380.275198) NImag= 1(-308.50 cm ⁻¹)			
6	-3.288083	1.592881	0.887962	6	-3.111814	1.939897	0.600808
6	-2.060519	0.918913	0.957539	6	-1.934824	1.197363	0.773622
6	-1.967937	-0.201955	1.792808	6	-1.847855	0.341212	1.879814
6	-3.068464	-0.648015	2.516697	6	-2.905137	0.222093	2.776883
6	-4.286291	0.020097	2.422828	6	-4.071899	0.955394	2.584911
6	-4.389305	1.145769	1.610036	6	-4.168922	1.817076	1.494327
6	-0.861953	1.362713	0.200449	6	-0.773186	1.325565	-0.138267
6	-0.874492	0.537519	-1.583202	6	-1.009074	0.039372	-1.691500
6	-2.150261	0.918036	-2.317469	6	-2.363672	0.278937	-2.326072
6	-0.709055	2.756608	-0.010541	6	-0.531465	2.591970	-0.712893
7	0.489458	3.263016	-0.402372	7	0.694855	2.889211	-1.227908
8	0.672269	4.482104	-0.485404	8	0.967940	4.039185	-1.591015
6	-0.602960	-0.834852	-1.352341	6	-0.711334	-1.235874	-1.159344
6	-1.717142	-1.833076	-1.208356	6	-1.826172	-2.098284	-0.637998
7	0.658984	-1.268612	-1.203573	7	0.556044	-1.667266	-1.065361
6	1.018082	-2.631186	-0.775448	6	0.981602	-2.853017	-0.303693
6	2.545557	-2.684738	-0.937612	6	2.498272	-2.911982	-0.535577
6	2.823869	-1.662149	-2.034714	6	2.666287	-2.274253	-1.911282
6	1.836208	-0.545464	-1.723980	6	1.661081	-1.130700	-1.882481
6	0.560359	-2.972636	0.648538	6	0.588281	-2.794314	1.177000
8	0.898619	-2.131843	1.619761	8	0.963490	-1.724179	1.872656
8	-0.088326	-3.967113	0.866046	8	-0.050845	-3.684244	1.682378
8	1.422368	2.432397	-0.692022	8	1.552401	1.947454	-1.313657
1	2.614732	-2.087263	-3.022003	1	2.408302	-2.987493	-2.701184
1	3.856812	-1.308066	-2.029249	1	3.682946	-1.919317	-2.091036
1	3.036669	-2.369891	-0.012976	1	3.021638	-2.307855	0.210407
1	2.878900	-3.695368	-1.179690	1	2.865368	-3.938069	-0.474352
1	0.534572	-3.366321	-1.425349	1	0.503614	-3.752182	-0.703972
1	1.549203	0.027901	-2.606394	1	1.282458	-0.869844	-2.873079
1	2.217021	0.157623	-0.982033	1	2.065394	-0.222985	-1.433014
1	-1.482310	3.496653	0.117858	1	-1.235099	3.407904	-0.751866
1	0.056760	0.867141	0.508171	1	0.127168	0.827352	0.211567
1	-1.020878	-0.724616	1.888853	1	-0.937055	-0.225846	2.049532
1	-2.968957	-1.517766	3.158036	1	-2.811048	-0.444588	3.627951
1	-5.146138	-0.327462	2.986387	1	-4.897866	0.862989	3.282690
1	-5.329731	1.683286	1.540714	1	-5.071417	2.400181	1.340472

1	-3.388602	2.480431	0.272366	1	-3.207834	2.617712	-0.240732
1	1.581009	-1.437759	1.385787	1	1.626394	-1.119987	1.434539
1	-0.000670	1.116946	-1.869061	1	-0.185708	0.511562	-2.219567
1	-1.725797	-2.261573	-0.200091	1	-2.120343	-1.745425	0.359431
8	2.945768	-0.519910	1.576702	8	3.011359	-0.182162	1.334882
1	3.147560	0.394411	1.237342	1	3.247099	0.660440	0.858320
6	3.326267	-0.569579	2.941398	6	3.671108	-0.179811	2.586647
1	4.413303	-0.482592	3.051309	1	4.759429	-0.143565	2.461776
1	2.848148	0.225560	3.524056	1	3.358386	0.665356	3.212024
1	3.009747	-1.535275	3.339378	1	3.407520	-1.104436	3.103540
8	3.507209	1.953839	0.813562	8	3.763860	2.076455	0.110013
1	2.746700	2.318022	0.290736	1	3.045444	2.187436	-0.561277
6	4.709658	2.291648	0.156249	6	3.785975	3.244444	0.907983
1	4.762413	1.876107	-0.858702	1	3.928108	4.138771	0.292149
1	4.831617	3.378502	0.092439	1	2.863877	3.369377	1.491025
1	5.537298	1.884665	0.741589	1	4.627429	3.160100	1.599410
1	-1.488127	-2.675308	-1.876311	1	-1.501806	-3.132351	-0.510210
6	-3.095963	-1.265433	-1.550773	6	-3.038658	-2.026625	-1.573290
6	-2.999777	-0.288238	-2.714345	6	-3.491033	-0.584978	-1.761417
1	-1.881330	1.494202	-3.209086	1	-2.777105	-2.472531	-2.541439
1	-2.749533	1.594125	-1.697090	1	-3.846264	-2.634243	-1.152864
1	-2.550588	-0.793440	-3.580051	1	-2.612512	1.344274	-2.245907
1	-3.995787	0.042873	-3.024959	1	-2.267698	0.082834	-3.403280
1	-3.516361	-0.755881	-0.678795	1	-3.820782	-0.188953	-0.796469
1	-3.766795	-2.097658	-1.785069	1	-4.355333	-0.541216	-2.432853
<i>s-si</i> Et = -1379.885563 (-1380.2488813) (-1380.2741884) NImag=1(-298.75 cm ⁻¹)				<i>s-si (II)</i> Et = -1379.8848448 (-1380.2481188) (-1380.2736599) NImag=1(-309.61 cm ⁻¹)			
6	-1.592449	1.130799	-0.643195	6	-1.517760	1.131754	-0.625837
6	-0.393970	1.788342	-0.319781	6	-0.282701	1.749495	-0.342252
7	0.786655	1.315296	-0.767795	7	0.869365	1.258372	-0.833537
6	0.929239	0.611484	-2.061881	6	0.946671	0.477049	-2.090033
6	2.362716	0.946209	-2.533237	6	2.379509	0.712098	-2.608748
6	2.839409	2.067017	-1.605724	6	2.872086	1.942288	-1.848967
6	2.101575	1.767645	-0.310246	6	2.192674	1.799400	-0.495278
6	0.624994	-0.897478	-2.024506	6	0.575748	-1.012812	-1.979103
8	1.491750	-1.726515	-1.478150	8	1.403477	-1.848380	-1.387008
8	-0.401291	-1.310208	-2.524965	8	-0.460455	-1.404832	-2.475764
1	2.537400	3.047826	-1.988169	1	2.537841	2.863689	-2.337904
1	3.923547	2.066525	-1.476958	1	3.960293	1.973988	-1.765474
1	3.020214	0.081970	-2.425036	1	3.022866	-0.138727	-2.375516
1	2.362551	1.232426	-3.586903	1	2.379263	0.843321	-3.692752
1	0.179346	1.021497	-2.741787	1	0.204060	0.890231	-2.777558
1	2.020113	2.615220	0.364064	1	2.101905	2.742236	0.037543
1	2.581568	0.964738	0.256549	1	2.720035	1.103755	0.165262
1	2.329220	-1.341945	-1.087213	1	2.253614	-1.476322	-1.008351
6	-1.643571	-0.302081	0.892327	6	-1.661529	-0.246520	0.899340
6	-0.459459	-1.051995	0.927853	6	-0.509874	-1.047930	0.994825
6	-2.906393	1.878360	-0.579281	6	-2.795694	1.957680	-0.593341
1	-1.733743	0.431840	1.688309	1	-1.742967	0.505521	1.679172
1	-0.324402	-2.012681	0.458142	1	-0.402479	-2.031605	0.567718
6	-2.899047	-1.009409	0.547922	6	-2.937036	-0.926561	0.563048
6	-2.978373	-1.908368	-0.524605	6	-3.041080	-1.839490	-0.494800
6	-4.163690	-2.585227	-0.784207	6	-4.243798	-2.489838	-0.742503
6	-5.286756	-2.379122	0.014946	6	-5.360210	-2.243154	0.054472
6	-5.220329	-1.482777	1.076968	6	-5.268696	-1.334911	1.104009
6	-4.036718	-0.799627	1.336888	6	-4.067134	-0.678877	1.352014
1	-2.117697	-2.059859	-1.169506	1	-2.184455	-2.026243	-1.135713
1	-4.210988	-3.276123	-1.619908	1	-4.309714	-3.192413	-1.567165
1	-6.209624	-2.911199	-0.192950	1	-6.296687	-2.754510	-0.144504
1	-6.089301	-1.313817	1.705047	1	-6.131239	-1.135681	1.732083

1	-3.985705	-0.106352	2.171753	1	-3.995511	0.020249	2.180626
7	0.627835	-0.603967	1.618560	7	0.579366	-0.594905	1.670699
8	0.628163	0.512552	2.176847	8	0.599185	0.557171	2.156471
8	1.640628	-1.360083	1.678521	8	1.573213	-1.370197	1.797139
1	-1.539138	0.383643	-1.430834	1	-1.497175	0.373293	-1.403117
6	-0.425012	2.988506	0.598138	6	-0.223676	2.979935	0.532894
1	-0.316147	2.636056	1.629420	1	0.424461	2.792354	1.390225
8	3.935640	-1.266280	-0.636263	8	3.849323	-1.423734	-0.557138
8	3.997084	-0.191998	1.819514	8	3.888038	-0.134866	1.779962
1	4.070059	-0.863197	0.259227	1	3.983425	-0.949175	0.303078
1	3.078121	-0.514795	2.005371	1	2.982037	-0.476241	2.006399
6	4.343006	-2.622574	-0.560895	6	4.204577	-2.782904	-0.359831
1	4.126122	-3.087720	-1.523942	1	3.984262	-3.319852	-1.283946
1	5.419868	-2.698689	-0.370178	1	5.275064	-2.880594	-0.144978
1	3.797779	-3.164602	0.219714	1	3.627915	-3.234963	0.454391
6	4.836420	-0.497402	2.911006	6	4.739971	-0.267240	2.895940
1	5.847580	-0.170997	2.657233	1	5.735860	0.070616	2.599987
1	4.519613	0.033177	3.816861	1	4.398104	0.354130	3.732159
1	4.861985	-1.573070	3.128593	1	4.813297	-1.306480	3.241409
1	0.429299	3.639669	0.398418	1	0.239329	3.784143	-0.057975
6	-1.708578	3.808621	0.448286	6	-1.597267	3.450867	1.001860
6	-2.947200	2.928891	0.523619	6	-2.584971	3.405066	-0.153925
1	-3.072449	2.368625	-1.549611	1	-1.951427	2.816693	1.822921
1	-3.727122	1.164365	-0.465063	1	-1.502783	4.462446	1.409313
1	-2.992220	2.443156	1.506612	1	-3.543588	3.853283	0.126326
1	-3.855859	3.533170	0.432444	1	-2.189070	4.001789	-0.986523
1	-1.725237	4.580613	1.224698	1	-3.528351	1.484488	0.070337
1	-1.696867	4.332609	-0.516162	1	-3.250423	1.928657	-1.589624
<i>s-re</i> Et = -1379.8833053 (-1380.2467511) (-1380.2732569) NImag= 1(-293.95 cm ⁻¹)				<i>s-re (II)</i> Et = -1379.8833787 (-1380.2468782) (-1380.272483) NImag= 1(-286.94 cm ⁻¹)			
6	1.258192	-0.481649	1.245395	6	1.189011	-0.445000	1.149918
6	-0.029593	-0.110399	1.686369	6	-0.158963	-0.242748	1.502505
6	-0.143989	1.207237	2.398248	6	-0.374178	0.949749	2.379150
7	-1.121141	-0.866959	1.470588	7	-1.173647	-1.059517	1.174021
6	-1.060029	-2.237144	0.937410	6	-0.981459	-2.347389	0.499674
6	-2.506668	-2.754742	1.037907	6	-2.389753	-2.963756	0.463866
6	-3.149233	-1.870160	2.100377	6	-3.093257	-2.327906	1.658650
6	-2.488990	-0.517444	1.872407	6	-2.548600	-0.904352	1.668373
6	-0.514323	-2.385308	-0.491263	6	-0.357810	-2.270979	-0.898609
8	-1.090563	-1.709041	-1.468171	8	-0.914794	-1.474112	-1.793818
8	0.416357	-3.131643	-0.706658	8	0.610501	-2.947304	-1.168776
1	-2.911720	-2.234757	3.105146	1	-2.816576	-2.840679	2.585780
1	-4.235338	-1.817796	2.002995	1	-4.181145	-2.350519	1.568402
1	-3.026376	-2.609705	0.088037	1	-2.902452	-2.672182	-0.455928
1	-2.525738	-3.818786	1.280375	1	-2.345304	-4.053478	0.506054
1	-0.379302	-2.825240	1.560807	1	-0.292053	-2.963115	1.088130
1	-2.487053	0.085005	2.779563	1	-2.546718	-0.477838	2.672570
1	-2.979327	0.061363	1.083817	1	-3.118111	-0.236662	1.014827
1	-1.910369	-1.184499	-1.232152	1	-1.755148	-1.010164	-1.508757
1	-0.029027	1.991052	1.636268	1	0.108990	1.792953	1.867541
6	1.446812	0.547217	-0.623621	6	1.512786	0.713155	-0.625913
1	0.672726	-0.087965	-1.038234	1	0.773630	0.122988	-1.154358
6	1.101526	1.908527	-0.597979	6	1.161687	2.054588	-0.432133
1	1.355944	-1.474125	0.814295	1	1.461457	-1.398511	0.707151
7	-0.210476	2.282447	-0.696711	7	-0.156908	2.425479	-0.477441
8	-0.523950	3.476046	-0.817752	8	-0.486712	3.617194	-0.418646
8	-1.095623	1.374230	-0.641080	8	-1.023566	1.504142	-0.554833
6	2.824338	0.142795	-0.976192	6	2.918853	0.347026	-0.898246
6	3.034007	-1.131231	-1.522789	6	3.186887	-0.853428	-1.571497
6	4.307043	-1.539992	-1.901900	6	4.492702	-1.221610	-1.872196

6	5.396534	-0.688964	-1.736995	6	5.556504	-0.403046	-1.502080
6	5.203840	0.575609	-1.186442	6	5.304160	0.788840	-0.827572
6	3.931406	0.987110	-0.808105	6	3.999162	1.160426	-0.528333
1	2.191368	-1.805855	-1.646000	1	2.364109	-1.504860	-1.851816
1	4.446115	-2.527903	-2.329013	1	4.677739	-2.153002	-2.397585
1	6.390390	-1.008583	-2.033792	1	6.576223	-0.691122	-1.737229
1	6.046903	1.246045	-1.052562	1	6.126566	1.434289	-0.535557
1	3.802250	1.976238	-0.381215	1	3.825062	2.093844	-0.003788
1	1.788415	2.739598	-0.588677	1	1.840610	2.880396	-0.291967
6	2.458554	-0.090076	2.088340	6	2.188761	0.155557	2.121797
1	-3.645401	0.298755	-1.199352	1	-3.533354	0.398284	-1.229055
8	-3.496732	-0.666636	-1.383131	8	-3.349054	-0.500761	-1.606886
8	-3.667837	1.925287	-0.760730	8	-3.621656	1.909205	-0.466841
1	-2.680679	1.980668	-0.706740	1	-2.638353	2.019781	-0.450261
6	-3.913677	-0.941110	-2.707693	6	-3.715249	-0.497203	-2.974345
1	-3.672888	-1.983600	-2.923788	1	-3.416254	-1.456325	-3.400926
1	-4.995606	-0.802002	-2.818243	1	-4.799318	-0.383785	-3.093391
1	-3.396976	-0.309143	-3.439825	1	-3.210211	0.300855	-3.531351
6	-4.137096	2.957337	-1.603315	6	-4.203994	3.055552	-1.052005
1	-5.227746	2.899144	-1.627108	1	-5.286562	2.910253	-1.064507
1	-3.846001	3.941074	-1.219693	1	-3.978027	3.954634	-0.468188
1	-3.758292	2.862357	-2.629339	1	-3.859605	3.217972	-2.081400
1	-1.122952	1.360773	2.849360	1	-1.420685	1.223971	2.504192
6	0.966824	1.400970	3.434674	6	0.338714	0.756121	3.736972
6	2.328062	1.267131	2.767863	6	1.683592	0.029153	3.564241
1	0.863239	0.659659	4.237213	1	3.154098	-0.341438	2.001746
1	0.852490	2.387217	3.896465	1	2.359101	1.218812	1.898862
1	3.134017	1.397941	3.497824	1	2.423690	0.426100	4.267037
1	2.438804	2.066156	2.025394	1	1.567684	-1.034909	3.799057
1	3.364817	-0.127106	1.476398	1	0.488774	1.746030	4.179325
1	2.590182	-0.864614	2.858632	1	-0.309085	0.202287	4.424439

Table S27. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent-Assisted Pathway (**L**₁ model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1226.0715115 (-1226.3891709) (-1226.414941) NImag=1(-297.7 cm ⁻¹)				<i>a-re</i> Et = -1226.0649675 (-1226.3834067) (-1226.410066) NImag= 1(-290.50 cm ⁻¹)			
6	-3.741415	-1.788316	0.434135	6	-3.307008	-1.698322	-0.225691
6	-2.703181	-1.085104	-0.190764	6	-2.944009	-0.344473	-0.234232
6	-3.039616	-0.121161	-1.153317	6	-3.925250	0.613007	0.054580
6	-4.368010	0.127947	-1.474002	6	-5.234644	0.230391	0.324288
6	-5.389079	-0.579387	-0.842162	6	-5.582691	-1.116947	0.322564
6	-5.071049	-1.540976	0.111655	6	-4.613133	-2.080528	0.049455
6	-1.304339	-1.405586	0.157287	6	-1.580279	0.110083	-0.559858
6	-0.323903	-1.353220	-0.848473	6	-0.602911	-0.204245	1.404157
7	0.923505	-1.820936	-0.613931	6	-1.387055	0.731868	2.288004
8	1.198161	-2.475117	0.408777	6	-0.876166	-0.540766	-1.571498
8	1.845847	-1.536531	-1.461668	7	0.310156	-0.063879	-2.041763
6	-0.753338	-0.133607	1.738581	8	0.951991	-0.701680	-2.885928
6	-1.962185	-0.048605	2.629725	6	0.764582	0.000253	1.156028
6	-0.240723	0.987736	1.056078	6	1.414835	1.301874	1.542511
6	-1.124340	2.145445	0.682330	6	2.101709	1.220205	2.911880
6	-1.064851	3.248134	1.750347	7	1.512804	-0.977179	0.602423
7	1.045824	0.998290	0.673870	6	2.978729	-0.979805	0.426476
6	1.635581	1.987549	-0.257550	6	3.181840	-2.169218	-0.516294
6	3.139445	1.690547	-0.199636	6	2.213176	-3.200603	0.048696
6	3.344381	1.159736	1.212481	6	1.013270	-2.364856	0.502698
6	2.114618	0.287743	1.414549	6	3.768793	0.231557	-0.094987
6	1.084359	1.968294	-1.692795	8	3.336987	0.938779	-1.124052
8	1.199795	0.864607	-2.414615	8	4.858054	0.423709	0.392885
8	0.598799	2.973667	-2.159373	8	0.760794	1.041822	-1.582199
1	3.368354	1.979160	1.939068	1	2.665143	-3.712112	0.903781
1	4.256552	0.568660	1.297889	1	1.927073	-3.959685	-0.682015
1	3.407619	0.910508	-0.917595	1	2.893541	-1.877630	-1.531362
1	3.724633	2.581944	-0.432855	1	4.222192	-2.498107	-0.524275
1	1.433410	2.996973	0.110181	1	3.447851	-1.200146	1.391928
1	1.815113	0.195411	2.460036	1	0.633075	-2.687919	1.479241
1	2.286567	-0.714253	1.014372	1	0.190909	-2.409429	-0.210418
1	-2.782402	0.523828	2.191041	1	-1.416090	1.752978	1.894510
1	-2.345979	-1.049407	2.846622	1	-2.418229	0.383578	2.372661
1	-1.708103	0.409394	3.593285	1	-0.978356	0.780513	3.304253
1	-1.188995	-2.223645	0.863089	1	-1.168479	-1.479143	-2.018215
1	-0.442516	-0.826182	-1.781180	1	-1.409881	1.173979	-0.436242
1	-2.259868	0.440226	-1.658178	1	-3.653161	1.663962	0.052781
1	-4.606597	0.875864	-2.223112	1	-5.983282	0.986581	0.537047
1	-6.425699	-0.383732	-1.096166	1	-6.603139	-1.417238	0.536899
1	-5.857956	-2.104094	0.602825	1	-4.876851	-3.133223	0.053689
1	-3.499090	-2.552350	1.166866	1	-2.558510	-2.459477	-0.426018
1	-0.000731	-0.838898	2.080838	1	2.381016	0.813188	-1.377281
1	-2.152324	1.791785	0.580946	1	-0.943248	-1.233728	1.419964
1	-0.842540	2.568712	-0.283725	1	0.649422	2.078506	1.554398
1	-0.050541	3.640741	1.866963	1	2.134703	1.622700	0.791011
1	-1.713579	4.079220	1.461926	1	2.953625	0.535774	2.900226
1	-1.396133	2.880946	2.725165	1	2.481203	2.206693	3.190213
1	1.558118	0.051248	-1.956637	1	1.409411	0.892139	3.692255
1	3.502802	-1.771332	-0.662174	1	-0.049069	2.580983	-0.859635
8	4.343159	-1.639232	-0.182949	8	-0.585444	3.203929	-0.337019
6	4.761946	-2.893113	0.297491	6	-0.816873	4.357630	-1.113968
1	5.055086	-3.575148	-0.514309	1	-1.352564	4.134987	-2.046849

1	5.639192	-2.730897	0.930025	1	-1.434615	5.033685	-0.518487
1	3.988403	-3.389649	0.898073	1	0.115031	4.879893	-1.367029
<i>s-si</i> Et = -1226.0672325 (-1226.3849045) (-1226.4108838) NImag=1(-291.9 cm ⁻¹)				<i>s-re</i> Et = -1226.0678369 (-1226.3866036) (-1226.4132355) NImag = 1(-332.16 cm ⁻¹)			
6	1.025680	1.454343	0.249499	6	-0.645233	0.363281	1.222246
6	-0.312181	1.623967	-0.131679	6	0.761434	0.227890	1.143845
7	-1.298339	0.965986	0.517262	6	1.421672	-1.012386	1.682317
6	-1.173866	0.523631	1.922187	7	1.551270	1.177177	0.614076
6	-2.629182	0.434807	2.432968	6	1.063309	2.474607	0.149846
6	-3.436926	1.264395	1.440015	6	2.344162	3.260967	-0.208056
6	-2.715757	1.000704	0.127874	6	3.443778	2.553776	0.577019
6	-0.439956	-0.796400	2.204244	6	3.017717	1.093947	0.523280
8	-0.929834	-1.926010	1.700016	6	0.160409	2.450974	-1.081774
8	0.491576	-0.811200	2.976006	8	0.372668	1.497265	-1.989164
1	-3.389261	2.329304	1.692504	8	-0.638070	3.336074	-1.267466
1	-4.487155	0.968831	1.398362	1	3.460499	2.901755	1.615157
1	-2.964733	-0.605556	2.410731	1	4.436305	2.709900	0.149541
1	-2.701476	0.784303	3.464539	1	2.539809	3.176744	-1.281621
1	-0.605331	1.282957	2.464977	1	2.234239	4.320013	0.028073
1	-2.902354	1.763627	-0.622344	1	0.500539	2.969173	0.947689
1	-3.006155	0.036616	-0.306241	1	3.423463	0.504916	1.343378
1	-1.388640	-1.841146	0.820860	1	3.317987	0.599291	-0.406631
6	1.526820	-0.264275	-0.994400	1	0.812236	0.686807	-1.636068
6	0.575434	-1.256614	-0.753351	1	2.285388	-1.282869	1.069432
6	2.093208	2.464029	-0.081325	1	0.707629	-1.835140	1.578631
1	1.959356	3.390583	0.489713	6	-1.442386	-0.654051	-0.478406
1	3.076473	2.065656	0.176131	1	-1.014875	0.085590	-1.138654
1	2.118166	2.735034	-1.140975	6	-0.907375	-1.943361	-0.616902
1	1.391676	0.308386	-1.906718	1	-1.042786	1.341439	0.958197
1	0.706601	-2.069758	-0.058295	7	0.357841	-2.113263	-1.092866
6	2.922718	-0.483995	-0.574299	8	0.827846	-3.247177	-1.248862
6	3.247614	-1.085232	0.650470	8	1.078489	-1.085547	-1.337941
6	4.575338	-1.311131	0.989651	6	-2.890364	-0.459510	-0.267418
6	5.599007	-0.943134	0.118119	6	-3.461384	0.762498	-0.651041
6	5.287874	-0.336678	-1.095128	6	-4.824499	0.988108	-0.504254
6	3.960072	-0.102030	-1.434305	6	-5.643040	-0.001964	0.032883
1	2.463394	-1.355528	1.351549	6	-5.088394	-1.218687	0.423001
1	4.811742	-1.773550	1.942337	6	-3.725398	-1.445159	0.277106
1	6.634668	-1.123532	0.387368	1	-2.829613	1.537964	-1.076015
1	6.078433	-0.044838	-1.778872	1	-5.247883	1.937651	-0.814909
1	3.719246	0.366538	-2.384048	1	-6.708175	0.172247	0.146112
7	-0.663154	-1.170254	-1.317112	1	-5.720209	-1.995685	0.841175
8	-0.916240	-0.331711	-2.195489	1	-3.310433	-2.397322	0.590096
8	-1.570435	-1.970631	-0.900839	1	-1.401889	-2.867616	-0.364706
1	1.200280	0.917013	1.177686	6	-1.387036	-0.292347	2.363409
6	-0.667742	2.534467	-1.281610	1	-2.462052	-0.149671	2.241778
1	-1.439517	2.085846	-1.905713	1	-1.203245	-1.369876	2.418681
1	0.207246	2.628687	-1.927054	1	-1.109602	0.143092	3.330012
6	-1.093032	3.925752	-0.798375	6	1.835780	-0.889914	3.154722
1	-1.317760	4.569584	-1.653186	1	0.979911	-0.709022	3.808399
1	-1.988039	3.880832	-0.170323	1	2.315963	-1.817244	3.477751
1	-0.302760	4.405429	-0.214426	1	2.549162	-0.075064	3.311094
1	-3.217791	-1.531387	-1.773334	1	2.819511	-1.720255	-1.157172
8	-4.173179	-1.341639	-1.807790	8	3.718677	-1.746278	-0.776779
6	-4.843590	-2.513222	-1.419321	6	4.300098	-2.988162	-1.097547
1	-5.911793	-2.283471	-1.375370	1	5.259095	-3.048212	-0.575698
1	-4.705313	-3.336116	-2.135747	1	3.675793	-3.832579	-0.781303
1	-4.533048	-2.875238	-0.427801	1	4.493068	-3.091181	-2.174853

Table S28. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent-Assisted Pathway (L_2 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**/mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**/mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1341.7643281 (-1342.122819) (-1342.148708) NImag=1(-289.08 cm ⁻¹)				<i>a-si (II)</i> Et = -1341.7689298 (-1342.1478971) NImag=1(-253.99 cm ⁻¹)			
6	-3.860125	0.660025	-1.661204	6	3.777007	1.222134	-0.300270
6	-2.789164	0.650192	-0.757070	6	2.683526	0.428629	-0.675452
6	-3.071482	0.781823	0.611472	6	2.937029	-0.811074	-1.283357
6	-4.380483	0.915265	1.055023	6	4.239690	-1.236292	-1.508165
6	-5.434677	0.921543	0.143353	6	5.316187	-0.434618	-1.131854
6	-5.170139	0.796643	-1.217033	6	5.080546	0.796961	-0.528460
6	-1.413991	0.541639	-1.270453	6	1.324799	0.946292	-0.448925
6	-0.378927	1.219667	-0.609128	6	0.303182	0.610408	-1.347569
7	0.853449	1.273636	-1.155415	7	-0.921795	1.178281	-1.286306
8	1.097179	0.855084	-2.299899	8	-1.179686	2.160546	-0.551853
8	1.818975	1.738369	-0.424872	8	-1.862913	0.662331	-1.981303
6	-0.940089	-1.559707	-1.355499	6	0.738454	0.284499	1.549503
6	-2.216715	-2.212122	-1.806991	6	1.978291	0.465270	2.376569
6	-0.380320	-1.792371	-0.087542	6	0.184447	-0.967700	1.251561
6	-1.241170	-2.201012	1.076494	6	1.021497	-2.217131	1.285932
6	-1.294774	-3.729179	1.220095	6	0.938436	-2.896597	2.660744
7	0.935756	-1.600836	0.109995	7	-1.111042	-1.058436	0.890346
6	1.591059	-1.623797	1.435918	6	-1.742822	-2.284847	0.357265
6	3.089012	-1.579277	1.104350	6	-3.237837	-1.940044	0.326745
6	3.174458	-2.275545	-0.246780	6	-3.399649	-0.956116	1.477826
6	1.942281	-1.747544	-0.965326	6	-2.142392	-0.107496	1.362412
6	1.180843	-0.508706	2.406533	6	-1.220682	-2.769245	-1.003964
8	1.313884	0.754061	2.024757	8	-1.316176	-1.964880	-2.054548
8	0.794458	-0.788836	3.516922	8	-0.774236	-3.887508	-1.115694
1	3.123031	-3.363501	-0.129871	1	-3.429114	-1.481266	2.438642
1	4.084274	-2.010780	-0.786054	1	-4.295663	-0.344371	1.369668
1	3.432472	-0.546426	0.996504	1	-3.502358	-1.441807	-0.610246
1	3.678672	-2.052684	1.891391	1	-3.850404	-2.839056	0.416362
1	1.343918	-2.556190	1.950448	1	-1.560766	-3.117882	1.041638
1	1.554822	-2.433057	-1.721200	1	-1.819348	0.320347	2.313242
1	2.156316	-0.788890	-1.445237	1	-2.296402	0.708606	0.652217
1	-2.999106	-2.205981	-1.044899	1	2.787691	-0.216523	2.105161
1	-2.617269	-1.701296	-2.686953	1	2.345747	1.488562	2.267185
1	-2.040135	-3.254322	-2.100132	1	1.759934	0.320780	3.442012
1	-1.324855	0.499475	-2.352050	1	1.288376	1.936605	-0.003560
1	-0.466627	1.681598	0.362449	1	0.371666	-0.201869	-2.053241
1	-2.262708	0.783723	1.334865	1	2.113145	-1.452206	-1.580251
1	-4.578107	1.020260	2.116691	1	4.415404	-2.197215	-1.980570
1	-6.456270	1.028786	0.492930	1	6.332752	-0.769363	-1.310850
1	-5.983524	0.811483	-1.935089	1	5.912330	1.430416	-0.237894
1	-3.658274	0.582009	-2.725391	1	3.594355	2.189107	0.158208
1	-0.220992	-1.386068	-2.150644	1	0.036179	1.108333	1.631184
1	-2.250840	-1.814443	0.922823	1	2.059696	-1.954914	1.072841
1	-0.882215	-1.767695	2.012047	1	0.714957	-2.928173	0.516288
1	-0.300879	-4.153390	1.389432	1	-0.087320	-3.188711	2.903906
1	-1.922617	-3.999667	2.072949	1	1.553528	-3.800240	2.667350
1	-1.712841	-4.201354	0.327389	1	1.295448	-2.236222	3.455136
1	1.603977	0.920611	1.088665	1	-1.647736	-1.041971	-1.886399
1	3.437231	1.154860	-1.142089	1	-3.515073	1.198144	-1.290931
8	4.247409	0.649838	-1.343756	8	-4.353718	1.241723	-0.794892

6	4.700454	1.058117	-2.611746	6	-4.763361	2.586456	-0.761414
1	5.047012	2.101885	-2.615504	1	-5.033817	2.966899	-1.757440
1	5.549029	0.423421	-2.881351	1	-5.652621	2.646643	-0.128068
1	3.928422	0.951223	-3.385319	1	-3.994526	3.248472	-0.340462
1	1.138365	3.352912	0.464180	1	-0.128523	3.271582	0.535877
8	0.511351	3.913735	0.949746	8	0.540216	3.642553	1.138822
6	1.084189	4.226586	2.197773	6	0.645231	5.026126	0.893338
1	1.319662	3.332510	2.789161	1	0.938410	5.249872	-0.141655
1	1.997839	4.831592	2.100369	1	-0.291257	5.558090	1.108686
1	0.350304	4.818351	2.750812	1	1.417776	5.418603	1.558651
<i>a-re</i>				<i>s-si</i>			
Et = -1341.7650275 (-1342.1461924) (-1342.1236215)				Et = -1341.7588251(-1342.1465515) (-1342.1176485)			
NImag= 1(-237.08 cm ⁻¹)				NImag=1(-262.66 cm ⁻¹)			
6	-3.307080	1.264659	-0.624055	6	-1.570158	-1.610366	0.008591
6	-2.960017	0.041498	-0.030001	6	-0.286592	-1.990639	-0.394743
6	-3.941515	-0.953617	0.080729	7	0.792105	-1.690352	0.368170
6	-5.236211	-0.728616	-0.372900	6	0.698144	-1.487056	1.828783
6	-5.568127	0.490459	-0.956274	6	2.112778	-1.806465	2.359639
6	-4.598407	1.484614	-1.082220	6	2.762683	-2.622503	1.247325
6	-1.618925	-0.226902	0.502705	6	2.182144	-1.992189	-0.008752
6	-0.591025	-0.921876	-1.446693	6	0.248770	-0.109637	2.335047
6	-1.379048	-2.165560	-1.759353	8	0.980832	0.958860	2.021921
6	-0.878743	0.807572	1.059837	8	-0.684668	-0.018734	3.097780
7	0.306081	0.579554	1.687701	1	2.466584	-3.674936	1.314825
8	0.984691	1.539523	2.119610	1	3.853016	-2.570931	1.266584
6	0.767031	-0.968009	-1.115232	1	2.668995	-0.878168	2.517086
6	1.431311	-2.294383	-0.849910	1	2.060073	-2.326334	3.317962
6	2.105320	-2.866072	-2.103828	1	-0.043289	-2.187852	2.221295
7	1.503666	0.166963	-1.070222	1	2.223850	-2.652464	-0.870289
6	2.971192	0.252986	-0.949334	1	2.709507	-1.069823	-0.279744
6	3.183698	1.748878	-0.697792	1	1.470389	0.899384	1.162987
6	2.184563	2.394929	-1.650480	6	-1.645277	0.416814	-0.944134
6	0.996071	1.430733	-1.648446	6	-0.506924	1.102852	-0.528601
6	3.774315	-0.557242	0.077667	6	-2.818634	-2.271063	-0.507889
8	3.345690	-0.701535	1.323067	1	-2.945625	-3.273254	-0.080557
8	4.867094	-0.948156	-0.258044	1	-3.696541	-1.687725	-0.223108
8	0.737403	-0.605903	1.830298	1	-2.834445	-2.377443	-1.596384
1	2.615241	2.472195	-2.653248	1	-1.600060	-0.028838	-1.932615
1	1.878408	3.389630	-1.323724	1	-0.479271	1.794711	0.297249
1	2.931879	1.976689	0.342728	6	-2.972591	0.847887	-0.482399
1	4.220069	2.038548	-0.878866	6	-3.198227	1.296426	0.827896
1	3.423687	-0.017935	-1.910021	6	-4.459584	1.731976	1.211089
1	0.618552	1.239829	-2.660317	6	-5.513966	1.729284	0.299078
1	0.175458	1.819162	-1.047201	6	-5.303576	1.277101	-1.000212
1	-1.391283	-2.875787	-0.926379	6	-4.044305	0.831519	-1.385000
1	-2.414878	-1.903114	-1.984476	1	-2.394742	1.277911	1.558187
1	-0.984053	-2.693069	-2.636166	1	-4.621417	2.070698	2.229011
1	-1.128125	1.855291	0.974776	1	-6.497344	2.072539	0.603455
1	-1.448682	-1.234376	0.865659	1	-6.119806	1.269627	-1.715129
1	-3.680852	-1.902635	0.538888	1	-3.880309	0.483334	-2.400504
1	-5.985634	-1.506738	-0.271279	7	0.700543	0.829254	-1.094812
1	-6.577043	0.666581	-1.314837	8	0.806434	0.105960	-2.092390
1	-4.851132	2.434764	-1.541440	8	1.749615	1.329988	-0.540525
1	-2.560408	2.045118	-0.735901	1	-1.667180	-1.199687	1.009737
1	2.395735	-0.472995	1.486393	6	-0.085380	-2.745969	-1.686237
1	-0.953799	-0.014859	-1.915832	1	0.800696	-2.389633	-2.210055
1	0.674553	-2.990632	-0.485884	1	-0.921788	-2.520224	-2.350084
1	2.161420	-2.220227	-0.045015	6	-0.014714	-4.259942	-1.457145
1	2.951219	-2.254574	-2.428245	1	0.105243	-4.780735	-2.411084
1	2.490897	-3.866241	-1.889614	1	0.830308	-4.534817	-0.818571
1	1.402238	-2.946381	-2.937614	1	-0.924697	-4.634830	-0.980748

1	-0.081851	-2.326143	1.856614	1	3.329617	0.610302	-1.441075
8	-0.638893	-3.103365	1.676490	8	4.231275	0.249125	-1.473905
6	-0.897373	-3.762195	2.896569	6	5.057443	1.150799	-0.771366
1	-1.419396	-3.118906	3.617791	1	6.094834	0.910717	-1.019297
1	-1.538999	-4.617827	2.674838	1	4.861936	2.193699	-1.046616
1	0.021015	-4.136261	3.367281	1	4.944378	1.062662	0.321224
1	0.548971	3.141993	1.270124	1	2.410539	3.090978	-0.950322
8	0.149108	3.810931	0.681554	8	2.860447	3.950901	-0.973387
6	-0.019885	5.002004	1.415848	6	2.673982	4.552848	0.281988
1	-0.649006	4.860755	2.305243	1	1.615465	4.758356	0.502335
1	0.937910	5.433446	1.737193	1	3.081086	3.953032	1.109453
1	-0.513951	5.723945	0.761367	1	3.203882	5.508574	0.267588
<i>s-re</i>							
Et = -1341.762487 (-1342.1216339)							
(-1342.1504095)							
NImag = 1(-305.12 cm ⁻¹)							
6	-1.215289	0.937106	1.093948				
6	0.180219	1.121443	1.179415				
6	0.970419	0.385867	2.228038				
7	0.854591	1.944197	0.353969				
6	0.207805	2.806856	-0.632847				
6	1.352427	3.684482	-1.185088				
6	2.412163	3.636130	-0.090035				
6	2.301243	2.210321	0.429892				
6	-0.456935	2.090102	-1.804763				
8	0.097262	0.949900	-2.225066				
8	-1.383872	2.593907	-2.388631				
1	2.173900	4.347077	0.707977				
1	3.413970	3.862928	-0.460288				
1	1.746805	3.240643	-2.104742				
1	0.998476	4.687889	-1.424362				
1	-0.564942	3.414164	-0.151011				
1	2.661236	2.102811	1.450912				
1	2.858112	1.493088	-0.181958				
1	0.649620	0.499879	-1.546787				
1	1.963417	0.132673	1.847249				
1	0.463428	-0.565886	2.415354				
6	-1.499280	-0.860582	-0.129971				
1	-1.098733	-0.334003	-0.983146				
6	-0.717327	-1.927890	0.327187				
1	-1.748455	1.595351	0.411229				
7	0.612183	-1.976559	0.043632				
8	1.281582	-2.972603	0.381445				
8	1.180733	-0.996458	-0.533437				
6	-2.968715	-0.941783	-0.127987				
6	-3.682827	-0.125587	-1.018023				
6	-5.069191	-0.185506	-1.080502				
6	-5.769259	-1.058817	-0.251975				
6	-5.073334	-1.871228	0.640391				
6	-3.687084	-1.812425	0.704569				
1	-3.142791	0.555168	-1.670633				
1	-5.602634	0.448284	-1.781143				
1	-6.852164	-1.107801	-0.301423				
1	-5.612375	-2.554779	1.288280				
1	-3.163042	-2.449728	1.408928				
1	-1.070259	-2.779753	0.885925				
6	-2.003485	0.584455	2.331260				
1	-3.041755	0.374051	2.068934				
1	-1.608500	-0.297675	2.844182				
1	-2.013525	1.410591	3.051535				
6	1.092942	1.157774	3.548462				
1	0.118498	1.352640	4.001678				

1	1.684990	0.575672	4.259400
1	1.592747	2.121379	3.411190
1	2.974997	-1.006095	0.144879
8	3.764615	-0.599820	0.543545
6	4.592446	-1.631563	1.049002
1	5.561378	-1.184861	1.286078
1	4.183033	-2.072260	1.968720
1	4.734216	-2.431865	0.316070
1	2.723300	-3.420020	-0.847891
8	3.472761	-3.643699	-1.425938
6	3.506848	-2.708070	-2.475059
1	3.703274	-1.685177	-2.123680
1	4.321852	-2.998997	-3.142954
1	2.577136	-2.695178	-3.062532

Table S29. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent-Assisted Pathway (C_1 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1226.0767788 (-1226.39482579) (-1226.42007194) NImag=1(-289.95 cm ⁻¹)				<i>a-re</i> Et = -1226.073661 (-1226.39161008) (-1226.42108327) NImag= 1(-302.0 cm ⁻¹)			
6	3.675189	-1.124895	-0.116374	6	-3.626451	-0.010000	-0.129410
6	2.328417	-0.974879	0.239835	6	-2.326258	-0.019509	0.393656
6	2.028323	-0.417617	1.491315	6	-2.019511	-0.951551	1.393758
6	3.044535	-0.024294	2.353006	6	-2.979672	-1.845553	1.855681
6	4.379746	-0.178359	1.985055	6	-4.264938	-1.829731	1.322001
6	4.692247	-0.731995	0.747334	6	-4.584174	-0.907719	0.328349
6	1.279547	-1.422731	-0.699375	6	-1.279660	0.938735	-0.046358
6	0.075833	-1.950526	-0.208239	6	-0.447043	0.233256	-1.714691
7	-0.792319	-2.548532	-1.074880	6	-1.572852	-0.034643	-2.678144
8	-0.503656	-2.674550	-2.276928	6	-1.674513	2.260075	-0.351392
8	-1.923775	-2.935171	-0.645589	7	-0.758383	3.269622	-0.431146
6	0.834287	0.143544	-1.968191	8	-1.126594	4.417486	-0.697971
6	2.109775	0.410842	-2.723978	6	0.399299	-0.804438	-1.254937
6	0.266140	1.098164	-1.108795	6	-0.096477	-2.216801	-1.125754
6	1.109183	2.196650	-0.518280	6	0.268056	-3.036918	-2.372807
6	1.085877	3.454047	-1.400145	7	1.661396	-0.522734	-0.891348
7	-1.037145	1.020843	-0.764685	6	2.534160	-1.412029	-0.106917
6	-1.662091	1.906270	0.243194	6	3.827768	-0.598404	0.049839
6	-3.169772	1.699227	0.040528	6	3.861893	0.261263	-1.209057
6	-3.274999	1.321938	-1.433261	6	2.400787	0.646624	-1.404646
6	-2.071182	0.409260	-1.627246	6	1.966540	-1.842992	1.251692
6	-1.198146	1.663224	1.688294	8	1.447093	-0.905171	2.032509
8	-1.345264	0.453173	2.206108	8	2.015750	-3.001422	1.590238
8	-0.709571	2.567496	2.326261	8	0.480568	3.013423	-0.243890
1	-3.184936	2.210229	-2.067660	1	4.219674	-0.323224	-2.063116
1	-4.212923	0.819070	-1.677499	1	4.504184	1.137773	-1.104523
1	-3.530790	0.870340	0.654974	1	3.757785	0.044646	0.931759
1	-3.727194	2.598396	0.309724	1	4.693955	-1.251799	0.166701
1	-1.396735	2.945149	0.031960	1	2.725370	-2.338645	-0.656002
1	-1.714478	0.382099	-2.657358	1	2.140174	0.799249	-2.454721
1	-2.305328	-0.612419	-1.318247	1	2.128148	1.552747	-0.858882
1	2.901063	0.836342	-2.102012	1	-2.218279	0.847950	-2.727881
1	2.492096	-0.521559	-3.150409	1	-1.193499	-0.212740	-3.690580
1	1.941112	1.093440	-3.565022	1	-2.192979	-0.888269	-2.394131
1	1.651790	-1.929385	-1.586574	1	-2.681182	2.567013	-0.587204
1	-0.272790	-1.858765	0.807205	1	-0.371747	0.875866	0.543205
1	0.996189	-0.283114	1.797831	1	-1.021493	-0.969752	1.822277

1 2.789320 0.408262 3.314854	1 -2.720108 -2.553351 2.636290
1 5.170885 0.129794 2.660960	1 -5.014887 -2.527546 1.680301
1 5.728786 -0.864284 0.454016	1 -5.585535 -0.882669 -0.089682
1 3.924960 -1.570136 -1.074781	1 -3.896567 0.705958 -0.898125
1 0.142067 -0.496901 -2.510391	1 1.557670 0.041146 1.718210
1 2.135542 1.837890 -0.421888	1 0.073458 1.164137 -1.919837
1 0.784529 2.458364 0.489729	1 -1.179954 -2.203738 -0.996903
1 0.072491 3.850720 -1.512776	1 0.312483 -2.711397 -0.242358
1 1.701007 4.236001 -0.947148	1 1.350534 -3.081661 -2.523518
1 1.477170 3.251434 -2.400256	1 -0.097162 -4.061156 -2.261928
1 -1.891760 -0.200846 1.673192	1 -0.179820 -2.611800 -3.274662
8 -2.899780 -1.393654 1.257575	8 1.732496 1.666591 1.666015
1 -2.548367 -2.016782 0.562610	1 1.198037 2.190641 1.014116
6 -3.343210 -2.147071 2.372805	6 1.633287 2.278010 2.942139
1 -4.224315 -2.743856 2.114075	1 2.067542 3.282682 2.925418
1 -2.561511 -2.815386 2.751357	1 0.593851 2.344626 3.282478
1 -3.613465 -1.443427 3.162185	1 2.193335 1.661783 3.647527
<i>s-si</i> Et = -1226.0731497 (-1226.39067219) (-1226.41703883) NImag=1(-312.28 cm ⁻¹)	<i>s-re</i> Et = -1226.070735 (-1226.38909719) (-1226.41642226) NImag = 1(-340.47 cm ⁻¹)
6 0.853254 1.403432 0.451633	6 -0.563097 0.453848 -1.337461
6 -0.429962 1.691750 -0.042068	6 0.776188 0.870996 -1.153270
7 -1.513240 1.013143 0.398082	6 1.086936 2.343526 -1.100387
6 -1.538410 0.312874 1.698933	7 1.799937 0.004029 -1.050757
6 -3.033375 0.210888 2.057092	6 1.685424 -1.437362 -1.306326
6 -3.701049 1.288487 1.208769	6 3.136619 -1.948770 -1.242913
6 -2.885146 1.253646 -0.075483	6 3.974775 -0.716254 -1.562021
6 -0.835745 -1.055070 1.761441	6 3.205048 0.400162 -0.870419
8 -1.339891 -2.065245 1.076758	6 0.794313 -2.239814 -0.351038
8 0.128580 -1.202470 2.481360	8 0.974913 -2.103715 0.952911
1 -3.609576 2.269942 1.686600	8 -0.019325 -3.016978 -0.797482
1 -4.760479 1.090839 1.032233	1 4.004714 -0.540149 -2.642385
1 -3.424114 -0.771013 1.780205	1 5.002004 -0.795937 -1.200201
1 -3.185501 0.338193 3.130699	1 3.363201 -2.299226 -0.231498
1 -1.000524 0.931291 2.423243	1 3.290726 -2.782753 -1.929619
1 -2.948514 2.180536 -0.639318	1 1.252559 -1.590801 -2.299974
1 -3.200993 0.429552 -0.721113	1 3.393781 1.374052 -1.319650
1 -2.084269 -1.843083 0.443649	1 3.442168 0.451488 0.196999
6 1.589674 -0.014365 -0.965444	1 1.665379 -1.439940 1.247315
6 0.685453 -1.054098 -1.198173	1 1.901026 2.532516 -0.400808
6 1.939639 2.451180 0.451501	1 0.213380 2.847621 -0.676389
1 1.717017 3.261906 1.155270	6 -1.394374 0.406123 0.579148
1 2.886511 2.006236 0.762406	1 -0.671780 -0.339271 0.890432
1 2.100043 2.907100 -0.530693	6 -1.284175 1.628452 1.267025
1 1.613584 0.749807 -1.737761	1 -0.703305 -0.605120 -1.542418
1 0.749147 -2.039835 -0.766316	7 -0.096149 1.970063 1.847436
6 2.895690 -0.349142 -0.357383	8 -0.002493 2.953475 2.589164
6 3.003666 -1.191627 0.757567	8 0.913195 1.249366 1.559445
6 4.253506 -1.518708 1.269286	6 -2.741490 -0.139338 0.290016
6 5.412429 -1.015061 0.681870	6 -2.897572 -1.524618 0.144938
6 5.315192 -0.171468 -0.420668	6 -4.150987 -2.077688 -0.091481
6 4.065816 0.163724 -0.931042	6 -5.272345 -1.259488 -0.193019
1 2.108222 -1.568995 1.242485	6 -5.130684 0.119524 -0.058818
1 4.321279 -2.167792 2.136401	6 -3.878779 0.673813 0.177750
1 6.385847 -1.274605 1.085705	1 -2.030340 -2.174514 0.213895
1 6.211676 0.227680 -0.884418	1 -4.248817 -3.153465 -0.195595
1 3.992901 0.818338 -1.794777	1 -6.250717 -1.692041 -0.376697
7 -0.382045 -0.857063 -2.024779	1 -5.998335 0.766984 -0.137445
8 -0.614033 0.273305 -2.496120	1 -3.788843 1.750573 0.274739
8 -1.120586 -1.849817 -2.295730	1 -2.081181 2.331512 1.448107
1 0.903667 0.722707 1.296610	6 -1.523412 1.337039 -2.099491

6	-0.621415	2.796066	-1.051937	1	-2.522881	0.898599	-2.079365
1	-1.363231	2.510815	-1.796857	1	-1.598371	2.342045	-1.672716
1	0.309630	2.911178	-1.609487	1	-1.236511	1.439034	-3.152054
6	-0.989357	4.129485	-0.390737	6	1.407279	2.944387	-2.474093
1	-1.099800	4.909160	-1.149770	1	0.574005	2.833251	-3.170964
1	-1.932777	4.065585	0.160675	1	1.618183	4.012384	-2.371541
1	-0.218836	4.454042	0.313389	1	2.283534	2.473924	-2.931614
1	-2.556504	-1.776299	-1.493983	1	2.127740	0.280228	2.231899
8	-3.221871	-1.839009	-0.754534	8	2.689060	-0.529867	2.197241
6	-3.850537	-3.107505	-0.846855	6	2.792675	-1.077308	3.501284
1	-3.118050	-3.921975	-0.842665	1	3.364414	-2.003745	3.425101
1	-4.507573	-3.217987	0.018077	1	3.321983	-0.392180	4.172010
1	-4.455317	-3.176935	-1.757303	1	1.808927	-1.305345	3.926921

Table S30. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent-Assisted Pathway (L_1C_1 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1341.7756517 (-1342.1343602) (-1342.1557084) NImag=1(-240.6 cm ⁻¹)				<i>a-re</i> Et = -1341.7732161 (-1342.1323447) (-1342.1580586) NImag= 1(-269.43 cm ⁻¹)			
6	3.487501	-2.125817	0.275502	6	2.756833	-2.529360	-0.182465
6	2.386299	-1.337900	0.639494	6	2.055029	-1.452905	0.379262
6	2.617333	-0.159842	1.366563	6	2.789483	-0.393714	0.931069
6	3.909086	0.211550	1.715199	6	4.179476	-0.410998	0.924224
6	4.994711	-0.582265	1.348222	6	4.863243	-1.483694	0.358728
6	4.779898	-1.753403	0.627954	6	4.146368	-2.541991	-0.194572
6	1.036250	-1.783118	0.267181	6	0.580164	-1.410297	0.442300
6	-0.067514	-1.488621	1.067286	6	-0.093493	-0.664138	-1.428226
7	-1.270271	-2.072744	0.793728	6	0.538560	-1.569704	-2.446926
8	-1.401550	-2.870701	-0.145608	6	-0.133933	-2.607742	0.597234
8	-2.278155	-1.752053	1.506961	7	-1.460129	-2.614653	0.912794
6	0.639323	-0.992501	-1.738856	8	-2.082980	-3.679311	0.962742
6	1.685594	-1.667584	-2.581217	6	0.226577	0.701212	-1.332128
6	0.623566	0.385303	-1.507981	6	1.556221	1.224029	-1.804176
6	1.861463	1.213902	-1.729646	6	1.463651	1.737908	-3.248310
6	1.921697	1.752134	-3.166557	7	-0.652285	1.571519	-0.797729
7	-0.502761	0.998858	-1.078347	6	-0.327284	2.951695	-0.407663
6	-0.562543	2.425905	-0.701792	6	-1.674626	3.521249	0.066724
6	-2.066860	2.716986	-0.585257	6	-2.696334	2.724365	-0.737344
6	-2.695857	1.725492	-1.559202	6	-2.104111	1.322273	-0.735893
6	-1.856782	0.473301	-1.351198	6	0.753628	3.080389	0.671039
6	0.229763	2.789029	0.563268	8	0.668432	2.285383	1.732885
8	-0.049913	2.148783	1.691501	8	1.638182	3.894469	0.558250
8	1.091106	3.636881	0.521160	8	-2.066687	-1.505825	1.132879
1	-2.600644	2.083964	-2.589832	1	-2.764086	3.108054	-1.760794
1	-3.749598	1.529828	-1.353682	1	-3.695646	2.746289	-0.298601
1	-2.422270	2.506828	0.426775	1	-1.808554	3.321536	1.134421
1	-2.280678	3.762515	-0.815573	1	-1.723286	4.600499	-0.087572
1	-0.123151	3.037028	-1.494923	1	0.044461	3.515643	-1.267870
1	-1.825800	-0.170704	-2.231270	1	-2.420349	0.709458	-1.580101
1	-2.249712	-0.112712	-0.520359	1	-2.365014	0.782301	0.176315
1	2.702998	-1.340706	-2.351047	1	0.362740	-2.613010	-2.165737
1	1.646571	-2.751108	-2.431453	1	0.082068	-1.428316	-3.433671
1	1.514919	-1.495516	-3.650861	1	1.616794	-1.426328	-2.550988
1	0.981458	-2.735153	-0.251958	1	0.263748	-3.591846	0.405568
1	-0.076423	-0.779336	1.878598	1	0.182996	-0.555738	0.975521

1 1.788527 0.479824 1.652028	1 2.265502 0.446007 1.378397
1 4.067319 1.129342 2.271791	1 4.726894 0.416558 1.363460
1 6.002398 -0.288043 1.623184	1 5.948331 -1.497368 0.351136
1 5.618000 -2.381331 0.343343	1 4.671160 -3.384088 -0.634294
1 3.323087 -3.047870 -0.273879	1 2.216109 -3.364018 -0.615258
1 -0.316295 -1.509013 -1.720072	1 -0.144504 1.707900 1.780867
1 2.739799 0.595625 -1.534763	1 -1.127901 -0.915993 -1.211106
1 1.918787 2.050326 -1.031931	1 2.293897 0.421937 -1.746806
1 1.062170 2.389082 -3.395366	1 1.927860 2.025460 -1.161996
1 2.825881 2.351591 -3.301590	1 0.743470 2.556040 -3.340482
1 1.939203 0.941542 -3.899443	1 2.438239 2.111516 -3.573298
1 -0.878663 1.586665 1.688710	1 1.157162 0.944201 -3.934357
8 -2.249865 0.841924 2.172265	8 -1.367614 0.760135 2.408658
1 -2.317912 -0.120873 1.957415	1 -1.578520 -0.115058 2.004520
6 -2.562777 1.035992 3.540855	6 -1.291958 0.616129 3.817659
1 -3.619526 0.822738 3.732655	1 -2.262276 0.324330 4.232405
1 -1.947617 0.406437 4.193723	1 -0.540104 -0.124435 4.112717
1 -2.365488 2.082725 3.777790	1 -1.007962 1.585278 4.230617
1 -3.770053 -1.736954 0.324467	1 -3.374870 -1.487800 -0.201642
8 -4.407669 -1.421287 -0.340862	8 -3.738265 -1.371782 -1.098439
6 -4.739034 -2.510874 -1.166264	6 -4.513290 -2.506353 -1.408621
1 -3.855154 -2.982423 -1.615561	1 -5.421031 -2.572836 -0.791794
1 -5.302205 -3.288576 -0.629154	1 -4.822300 -2.417505 -2.453550
1 -5.377052 -2.132928 -1.970083	1 -3.951893 -3.441412 -1.288775
<i>s-si</i> Et = -1341.7736336 (-1342.13176048) (-1342.1544754) NImag=1(-257.22 cm ⁻¹)	<i>s-re</i> Et = -1341.7706349 (-1342.12923239) (-1342.1544028) NImag = 1(-298.86 cm ⁻¹)
6 -1.049209 -0.893292 1.306098	6 -0.956156 0.144916 1.453310
6 0.337172 -1.060089 1.204712	6 0.450576 0.056464 1.469088
7 1.166843 0.012171 1.228426	6 1.110776 -1.206283 1.956218
6 0.774338 1.282720 1.877689	7 1.242599 1.081858 1.098724
6 2.106840 1.955538 2.256960	6 0.753399 2.440883 0.843429
6 3.102743 0.802183 2.305683	6 2.034801 3.274034 0.651921
6 2.637947 -0.079405 1.156536	6 3.103241 2.478893 1.394756
6 -0.139720 2.224075 1.078229	6 2.711968 1.036795 1.103929
8 0.319135 2.778260 -0.030372	6 -0.188281 2.613989 -0.353487
8 -1.245061 2.491929 1.497972	8 0.177566 2.115396 -1.526110
1 3.023750 0.261731 3.255448	8 -1.222382 3.230342 -0.230411
1 4.137113 1.130253 2.182975	1 3.049455 2.674465 2.470850
1 2.407820 2.667733 1.484718	1 4.115453 2.709439 1.056080
1 2.011630 2.502113 3.197410	1 2.287458 3.330041 -0.411298
1 0.195425 1.035876 2.772257	1 1.901309 4.293098 1.018810
1 2.977185 -1.107861 1.228405	1 0.180170 2.784923 1.710420
1 2.986481 0.313410 0.198162	1 3.076949 0.342373 1.858246
1 1.220553 2.467074 -0.339093	1 3.078441 0.709306 0.126103
6 -1.646052 -0.694471 -0.831187	1 1.048912 1.628400 -1.550810
6 -0.784124 0.156415 -1.521261	1 2.018207 -1.425483 1.389872
6 -1.955066 -2.005059 1.765645	1 0.430971 -2.037231 1.747411
1 -1.838227 -2.200891 2.838508	6 -1.532794 -0.719677 -0.472559
1 -2.999090 -1.728597 1.604064	1 -0.969294 0.059712 -0.970455
1 -1.780003 -2.950713 1.243517	6 -1.010928 -2.011188 -0.626521
1 -1.442910 -1.752930 -0.957925	1 -1.377924 1.123693 1.239793
1 -0.982471 1.189483 -1.757588	7 0.304514 -2.167660 -0.940232
6 -3.062973 -0.328252 -0.664996	8 0.781599 -3.307277 -1.125624
6 -3.475926 0.976034 -0.357138	8 1.034467 -1.137892 -0.992339
6 -4.828311 1.278901 -0.265800	6 -2.989678 -0.501023 -0.425286
6 -5.790609 0.294042 -0.481075	6 -3.496373 0.764073 -0.757558
6 -5.392163 -1.005607 -0.779249	6 -4.865441 1.001526 -0.760507
6 -4.039372 -1.314670 -0.862815	6 -5.755264 -0.016163 -0.427488
1 -2.741382 1.747431 -0.150246	6 -5.265729 -1.275113 -0.087320
1 -5.131511 2.290833 -0.017753	6 -3.897610 -1.514948 -0.083604

1	-6.845778	0.537757	-0.409502	1	-2.811734	1.568859	-1.008365
1	-6.133590	-1.780365	-0.946232	1	-5.236364	1.986571	-1.024183
1	-3.730899	-2.328303	-1.101508	1	-6.824508	0.169915	-0.430443
7	0.419237	-0.311174	-1.959976	1	-5.951795	-2.073823	0.175889
8	0.763548	-1.486370	-1.686825	1	-3.536160	-2.500631	0.188948
8	1.163964	0.436230	-2.649708	1	-1.547249	-2.938567	-0.505567
1	-1.409759	0.100541	1.554148	6	-1.785730	-0.672717	2.410911
6	0.936855	-2.441542	1.105592	1	-2.845441	-0.565290	2.171099
1	1.792871	-2.456160	0.429681	1	-1.546552	-1.739713	2.373988
1	0.197613	-3.103251	0.651174	1	-1.654854	-0.339188	3.447020
6	1.331337	-2.988145	2.483308	6	1.413518	-1.179068	3.459754
1	1.743209	-3.996231	2.382300	1	0.507156	-1.058060	4.057865
1	2.092868	-2.366006	2.963860	1	1.890474	-2.117739	3.753325
1	0.473238	-3.041282	3.159036	1	2.093939	-0.363607	3.724890
1	2.204568	1.456790	-1.783498	1	2.062585	-0.106019	-1.942300
8	2.581209	2.155212	-1.193470	8	2.391284	0.794804	-2.147657
6	2.951113	3.261030	-2.002384	6	2.484599	0.945483	-3.555811
1	2.104459	3.635943	-2.587736	1	2.820936	1.964439	-3.752950
1	3.300232	4.053271	-1.337944	1	3.215288	0.247153	-3.976941
1	3.764667	2.988786	-2.682499	1	1.516903	0.793313	-4.046889
1	2.578963	-1.721898	-1.621368	1	2.524909	-3.115392	-0.412424
8	3.455437	-1.990976	-1.283963	8	3.370559	-2.955712	0.049191
6	3.981521	-2.949281	-2.167179	6	4.294314	-2.517320	-0.911079
1	4.151523	-2.542498	-3.174258	1	5.248496	-2.351836	-0.402571
1	4.946362	-3.273629	-1.768064	1	4.462915	-3.259667	-1.705257
1	3.338626	-3.836412	-2.262877	1	3.997175	-1.571465	-1.388572

Table S31. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent-Assisted Pathway (L_2C_1 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1457.4698464 (-1457.86941248) (-1457.8908839) NImag=1(-187.5 cm ⁻¹)				<i>a-re</i> Et = -1457.4698575 (-1457.86933692) (-1457.8924957) NImag= 1(-208.48 cm ⁻¹)			
6	-3.413211	1.765879	-1.405736	6	-1.880609	-3.389265	0.088798
6	-2.314158	1.394563	-0.616869	6	-1.498376	-2.163675	-0.477701
6	-2.500265	1.240962	0.766823	6	-2.360572	-1.555087	-1.402570
6	-3.746987	1.458568	1.336583	6	-3.563681	-2.155884	-1.752422
6	-4.829909	1.832356	0.541753	6	-3.933270	-3.369591	-1.178657
6	-4.659691	1.985817	-0.831263	6	-3.087893	-3.982983	-0.256510
6	-1.009705	1.202763	-1.252977	6	-0.215526	-1.516409	-0.173202
6	0.171575	1.457790	-0.564722	6	-0.574623	-0.358808	1.728323
7	1.360518	1.424116	-1.232221	6	-1.120580	-1.398286	2.660910
8	1.433970	1.108050	-2.425395	6	0.904923	-2.285848	0.137500
8	2.432250	1.698384	-0.578193	7	2.161094	-1.757728	0.159328
6	-0.968454	-0.972611	-1.960814	8	3.135236	-2.467075	0.425768
6	-2.091473	-0.983029	-2.957094	6	-1.337236	0.695401	1.220959
6	-1.016953	-1.647893	-0.744644	6	-2.841148	0.626339	1.192637
6	-2.333055	-2.109995	-0.175009	6	-3.442804	1.248193	2.460866
6	-2.682485	-3.527002	-0.651396	7	-0.739106	1.813377	0.750415
7	0.118177	-1.917928	-0.055808	6	-1.424688	2.866599	-0.011970
6	0.131298	-2.546194	1.278554	6	-0.339319	3.938588	-0.206704
6	1.604804	-2.922322	1.499103	6	0.567735	3.746018	1.004124
6	2.135992	-3.132198	0.084077	6	0.615739	2.231194	1.148567
6	1.436163	-2.037016	-0.709187	6	-2.031280	2.408050	-1.344280
6	-0.450529	-1.670992	2.398914	8	-1.273032	1.685007	-2.161347
8	0.053771	-0.457516	2.578026	8	-3.164953	2.707823	-1.635137

8	-1.355732	-2.083760	3.087087	8	2.330403	-0.507481	-0.087323
1	1.848247	-4.119221	-0.293736	1	0.121566	4.199221	1.895666
1	3.221175	-3.036599	0.017691	1	1.561303	4.176171	0.863930
1	2.145025	-2.097148	1.968027	1	0.223993	3.739369	-1.123042
1	1.691164	-3.802607	2.139042	1	-0.778331	4.934727	-0.284699
1	-0.488255	-3.447501	1.273485	1	-2.261232	3.273224	0.563690
1	1.295272	-2.299836	-1.759275	1	0.832940	1.891653	2.161768
1	2.007715	-1.108570	-0.669602	1	1.365997	1.798559	0.483007
1	-3.076596	-0.852673	-2.501579	1	-0.463305	-2.273922	2.664712
1	-1.958081	-0.180142	-3.689392	1	-1.149263	-1.025109	3.692089
1	-2.113410	-1.919854	-3.527946	1	-2.126899	-1.734557	2.399964
1	-0.969729	1.343403	-2.327942	1	0.882245	-3.333004	0.395399
1	0.242543	1.714040	0.481143	1	-0.033091	-0.585406	-0.693463
1	-1.673586	0.932790	1.398971	1	-2.077653	-0.610999	-1.859328
1	-3.873731	1.329073	2.406187	1	-4.212255	-1.672263	-2.475336
1	-5.802610	2.001711	0.992058	1	-4.874249	-3.837240	-1.449558
1	-5.496491	2.281325	-1.455810	1	-3.368264	-4.929993	0.193150
1	-3.279600	1.900218	-2.474892	1	-1.234542	-3.880833	0.808125
1	0.011088	-0.772280	-2.384078	1	-0.316763	1.572464	-1.890614
1	-3.116959	-1.417285	-0.487220	1	0.489199	-0.175810	1.847530
1	-2.329207	-2.089268	0.915456	1	-3.149226	-0.417716	1.113664
1	-1.922669	-4.253096	-0.347697	1	-3.252985	1.131369	0.316787
1	-3.635888	-3.841749	-0.218777	1	-3.165324	2.301391	2.562930
1	-2.771157	-3.574716	-1.739851	1	-4.533916	1.191267	2.423579
1	0.909514	-0.262233	2.094447	1	-3.104644	0.726139	3.359605
8	2.428731	0.231355	1.757238	8	1.310423	1.288452	-1.882965
1	2.530319	0.752790	0.932866	1	1.643378	0.567122	-1.309720
6	3.013846	0.949572	2.840075	6	1.943255	1.183686	-3.156736
1	4.106526	0.898908	2.785351	1	3.008171	0.976217	-3.025278
1	2.690346	1.993619	2.842749	1	1.486301	0.394549	-3.765385
1	2.684251	0.465537	3.760932	1	1.811664	2.139138	-3.666900
1	3.748634	0.521659	-1.351329	1	2.899674	0.149360	1.631239
8	4.255598	-0.293817	-1.507203	8	2.816465	0.364961	2.575039
6	4.596944	-0.332853	-2.871235	6	3.837186	-0.314839	3.271408
1	3.718972	-0.263583	-3.527018	1	4.837158	0.060672	3.013619
1	5.296178	0.468672	-3.152123	1	3.675083	-0.141295	4.337974
1	5.093782	-1.288815	-3.057851	1	3.818960	-1.396415	3.087083
1	2.092302	3.133421	0.626421	1	4.055764	-0.316348	-0.944139
8	1.712014	3.600673	1.390074	8	4.717288	-0.065728	-1.611206
6	1.438681	4.929862	1.016943	6	5.395047	-1.234448	-2.003787
1	0.999439	5.427956	1.884186	1	4.731935	-1.973081	-2.477669
1	2.345442	5.481285	0.731084	1	6.152670	-0.941756	-2.735136
1	0.719800	4.994334	0.187894	1	5.901708	-1.727738	-1.163379
<i>s-si</i> Et = -1457.4645014 (-1457.86326159) (-1457.8908346) NImag=1(-238.57 cm ⁻¹)				<i>s-re</i> Et = -1457.4676901(-1457.86687122) (-1457.89153) NImag = 1(-270.53 cm ⁻¹)			
6	2.018230	1.459692	-0.313231	6	0.462093	-1.040607	1.477126
6	0.766184	1.986225	-0.636503	6	-0.807480	-0.438939	1.471753
7	-0.233065	2.022192	0.281254	6	-1.001674	0.903308	2.127769
6	0.040093	2.006260	1.734790	7	-1.890392	-1.042107	0.935425
6	-1.194737	2.667588	2.374111	6	-1.908174	-2.442412	0.501850
6	-1.823435	3.468846	1.238752	6	-3.387648	-2.718214	0.173023
6	-1.567905	2.586941	0.025110	6	-4.144710	-1.688619	1.004922
6	0.359180	0.635437	2.356940	6	-3.242165	-0.464609	0.930067
8	-0.587149	-0.283192	2.412353	6	-1.015448	-2.795762	-0.692328
8	1.458139	0.430261	2.826727	8	-1.090541	-2.042646	-1.782059
1	-1.316484	4.432240	1.117210	8	-0.290089	-3.763022	-0.649222
1	-2.887278	3.659112	1.395106	1	-4.235955	-2.025864	2.042677
1	-1.897690	1.908245	2.723121	1	-5.147466	-1.488019	0.621847
1	-0.907252	3.275362	3.234288	1	-3.572389	-2.543395	-0.891339
1	0.940291	2.601984	1.911608	1	-3.654605	-3.753150	0.393452

1	-1.587266	3.142364	-0.908857	1	-1.557189	-3.078743	1.320951
1	-2.304289	1.780599	-0.032606	1	-3.381529	0.209129	1.773460
1	-1.456312	-0.058171	1.964333	1	-3.404695	0.099936	0.006615
6	1.724533	-0.704520	-0.912463	1	-1.726020	-1.274804	-1.744297
6	0.513874	-1.193281	-0.428994	1	-1.733028	1.508825	1.588883
6	3.263765	1.809350	-1.081081	1	-0.058508	1.451661	2.053640
1	3.608918	2.822389	-0.840084	6	1.465598	-0.191575	-0.345877
1	4.072910	1.126019	-0.814899	1	0.677410	-0.635517	-0.940916
1	3.135197	1.761177	-2.166622	6	1.462181	1.205863	-0.282738
1	1.710918	-0.383302	-1.949340	1	0.521094	-2.065043	1.120023
1	0.396607	-1.805136	0.450991	7	0.321149	1.879724	-0.579319
6	2.993928	-1.258993	-0.421281	8	0.300469	3.142862	-0.566138
6	3.202998	-1.585927	0.926851	8	-0.730586	1.236824	-0.825301
6	4.401371	-2.161357	1.327746	6	2.727060	-0.943018	-0.300676
6	5.406612	-2.423216	0.398233	6	2.748296	-2.261179	-0.781914
6	5.212792	-2.095492	-0.940445	6	3.928579	-2.993453	-0.790753
6	4.018703	-1.510297	-1.344983	6	5.108601	-2.426725	-0.315985
1	2.445303	-1.355469	1.668888	6	5.100439	-1.121270	0.170620
1	4.552761	-2.401680	2.374878	6	3.922700	-0.385354	0.181323
1	6.339718	-2.875523	0.718338	1	1.831883	-2.716870	-1.144936
1	5.990525	-2.294551	-1.670553	1	3.924361	-4.010080	-1.169900
1	3.865908	-1.261377	-2.391042	1	6.030790	-2.998994	-0.323158
7	-0.638112	-0.921628	-1.103114	1	6.015919	-0.672855	0.542817
8	-0.654917	-0.162531	-2.082055	1	3.938454	0.629425	0.564246
8	-1.718922	-1.486088	-0.709771	1	2.288833	1.839034	0.007036
1	2.194024	1.197785	0.725620	6	1.481389	-0.701506	2.533005
6	0.513271	2.560831	-2.009585	1	2.444886	-1.149200	2.280469
1	-0.493955	2.323405	-2.350425	1	1.638619	0.375399	2.643705
1	1.175747	2.060844	-2.717760	1	1.190855	-1.096302	3.514001
6	0.766067	4.071940	-2.056138	6	-1.389888	0.788018	3.607279
1	0.592299	4.453203	-3.066309	1	-0.620784	0.276458	4.191012
1	0.105808	4.618188	-1.375198	1	-1.527112	1.786938	4.029201
1	1.795690	4.312384	-1.778601	1	-2.326316	0.237466	3.741853
1	-2.676068	-0.574160	0.455546	1	-2.020304	0.754396	-1.925566
8	-2.924486	-0.046316	1.247001	8	-2.635855	0.064954	-2.246346
6	-3.914740	-0.770776	1.981183	6	-2.700019	0.122207	-3.663348
1	-3.687038	-1.839664	1.988073	1	-3.365025	-0.678063	-3.990890
1	-3.917353	-0.379764	3.000378	1	-3.111776	1.079810	-3.998445
1	-4.903061	-0.610122	1.538527	1	-1.716409	-0.027956	-4.122141
1	-2.193322	-3.084528	0.270468	1	1.925918	3.899999	0.062368
8	-2.817122	-3.650355	0.751916	8	2.869778	3.995827	0.288214
6	-3.708908	-4.189045	-0.202480	6	3.512720	4.557362	-0.830635
1	-4.148893	-3.418304	-0.847252	1	4.580459	4.610615	-0.603896
1	-3.223952	-4.939886	-0.843139	1	3.387077	3.952330	-1.740148
1	-4.511444	-4.686622	0.347757	1	3.161715	5.576222	-1.047174
1	-3.071035	-1.390203	-2.057302	1	-1.471182	3.493348	0.066525
8	-3.947968	-1.378376	-2.478399	8	-2.353145	3.591815	0.471021
6	-4.401715	-0.052287	-2.461018	6	-3.289131	3.656739	-0.572220
1	-3.742389	0.628100	-3.020529	1	-3.114238	4.509516	-1.244691
1	-5.386335	-0.032998	-2.935959	1	-3.311663	2.741631	-1.182816
1	-4.514521	0.349378	-1.440883	1	-4.277538	3.784954	-0.122132

Table S32. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent-Assisted Pathway (L_1C_2 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1457.4732854 (-1457.8721362) (-1457.8955669) NImag=1(-260.23 cm ⁻¹)				<i>a-si(II)</i> Et = -1457.4752794 (-1457.8748465) (-1457.8947196) NImag=1(-258.97 cm ⁻¹)			
6	-4.002119	-1.607223	1.225203	6	3.959855	1.540382	-1.211133
6	-2.842022	-1.254939	0.521887	6	2.879086	0.649380	-1.150979
6	-2.867474	-1.310122	-0.880063	6	3.141229	-0.725112	-1.256424
6	-4.017408	-1.710418	-1.548574	6	4.441450	-1.185162	-1.419321
6	-5.162707	-2.061736	-0.836345	6	5.505928	-0.287606	-1.480039
6	-5.151765	-2.008830	0.554070	6	5.260972	1.078125	-1.375209
6	-1.633107	-0.878264	1.277321	6	1.514996	1.190066	-1.017131
6	-0.369330	-1.240431	0.794578	6	0.432702	0.539532	-1.618075
7	0.721507	-1.103589	1.593472	7	-0.769324	1.168667	-1.713578
8	0.640048	-0.602292	2.728786	8	-0.907779	2.344389	-1.285132
8	1.854291	-1.457842	1.130541	8	-1.733503	0.542488	-2.221341
6	-1.699921	1.228585	1.584844	6	1.113036	1.392844	1.089050
6	-3.040867	1.470943	2.221902	6	2.209865	2.294243	1.586053
6	-1.364179	1.714979	0.314226	6	1.001107	0.052588	1.479378
6	-2.428360	2.037611	-0.700842	6	2.200248	-0.708587	1.981754
6	-2.745474	3.538727	-0.719665	6	2.250210	-0.730867	3.515097
7	-0.070398	1.861240	-0.035037	7	-0.175063	-0.598503	1.377277
6	0.403121	2.090570	-1.417223	6	-0.332680	-2.059991	1.530915
6	1.763084	2.795960	-1.264574	6	-1.796988	-2.263198	1.966410
6	1.848988	3.174816	0.217029	6	-2.309043	-0.856673	2.289453
6	1.030920	2.092940	0.909443	6	-1.498676	0.037944	1.360734
6	0.389409	0.749339	-2.178867	6	0.092164	-2.755355	0.225271
8	1.379254	-0.105560	-2.019047	8	-0.711492	-2.702056	-0.821987
8	-0.569660	0.470334	-2.869871	8	1.180791	-3.285504	0.149525
1	1.395720	4.155014	0.396788	1	-2.098766	-0.592574	3.330791
1	2.876987	3.198381	0.583689	1	-3.383008	-0.753198	2.122557
1	2.590490	2.134215	-1.525681	1	-2.394139	-2.699202	1.163756
1	1.819034	3.664733	-1.923739	1	-1.851229	-2.940302	2.821354
1	-0.308493	2.726227	-1.943614	1	0.354829	-2.425754	2.292485
1	0.632226	2.405257	1.873768	1	-1.441613	1.071802	1.698069
1	1.623354	1.188362	1.062921	1	-1.919755	0.031754	0.349849
1	-3.881247	1.296274	1.545965	1	3.202159	1.839029	1.539467
1	-3.171986	0.808516	3.083000	1	2.241966	3.209407	0.986680
1	-3.122127	2.497180	2.600147	1	2.032006	2.604717	2.622859
1	-1.732965	-0.927013	2.358720	1	1.446756	2.274086	-1.018582
1	-0.158333	-1.583307	-0.205585	1	0.429884	-0.475593	-1.982058
1	-1.994922	-1.024088	-1.459103	1	2.334725	-1.448030	-1.192931
1	-4.017241	-1.745457	-2.633109	1	4.621559	-2.252407	-1.495700
1	-6.058059	-2.375226	-1.363468	1	6.520066	-0.651962	-1.608764
1	-6.036365	-2.285568	1.118623	1	6.081701	1.786367	-1.427175
1	-3.993211	-1.584052	2.310839	1	3.772119	2.607955	-1.146615
1	-0.881536	1.137574	2.294070	1	0.185452	1.914389	0.870923
1	-3.331067	1.478643	-0.450508	1	3.102617	-0.231357	1.597465
1	-2.130136	1.694909	-1.693851	1	2.208687	-1.725471	1.583324
1	-1.866287	4.136943	-0.978846	1	1.365892	-1.211376	3.944929
1	-3.523117	3.748798	-1.458958	1	3.130118	-1.284513	3.853798
1	-3.103187	3.882664	0.254775	1	2.307875	0.280752	3.926069
1	2.190677	0.175866	-1.493481	1	-1.629758	-2.323151	-0.689944
8	3.744733	0.313583	-1.016407	8	-3.271676	-2.148397	-0.872648
1	3.883466	0.257647	-0.036865	1	-3.656469	-1.236544	-0.889276
6	4.483914	-0.735583	-1.634977	6	-3.603633	-2.766524	-2.106529
1	5.556975	-0.607318	-1.452948	1	-4.688068	-2.886301	-2.202768

1	4.160000	-1.720134	-1.281208	1	-3.229092	-2.188364	-2.957577
1	4.305244	-0.667349	-2.709615	1	-3.136740	-3.752841	-2.116700
8	3.902616	0.144080	1.661771	8	-4.207611	0.319736	-1.264760
1	3.155434	-0.494855	1.742107	1	-3.394263	0.709828	-1.651683
6	5.002795	-0.324421	2.414351	6	-4.965728	1.307104	-0.592184
1	5.826292	0.378330	2.270401	1	-5.764165	0.794227	-0.051190
1	4.763391	-0.363220	3.483425	1	-4.360243	1.879533	0.119153
1	5.331659	-1.320115	2.091723	1	-5.428274	2.000970	-1.305397
1	2.386393	-2.910112	0.047189	1	-1.982524	2.832687	0.077917
8	2.818227	-3.550682	-0.544311	8	-2.355118	3.083346	0.945879
6	1.913679	-3.848008	-1.580470	6	-2.362783	4.488722	1.027291
1	1.614620	-2.958008	-2.151098	1	-2.753368	4.759116	2.011418
1	2.414372	-4.538451	-2.264247	1	-1.356789	4.919453	0.928596
1	1.003045	-4.344752	-1.212477	1	-3.008256	4.948573	0.266425
<i>a-re</i> Et = -1457.4731565 (-1457.8771032) (-1457.8969932) NImag = 1(-284.4 cm ⁻¹)				<i>a-re(II)</i> Et = -1457.4683898 (-1457.8671386) (-1457.8942058) NImag = 1(-280.59 cm ⁻¹)			
6	-3.216832	-1.750520	0.331458	6	3.538612	-2.232276	-0.288392
6	-1.927384	-1.319766	0.675530	6	2.552402	-1.413446	0.277852
6	-1.213960	-2.044388	1.640645	6	2.856388	-0.723661	1.460251
6	-1.769616	-3.168824	2.240044	6	4.105851	-0.848790	2.056455
6	-3.046392	-3.592816	1.881634	6	5.077859	-1.661202	1.479114
6	-3.767606	-2.878916	0.927264	6	4.789427	-2.352822	0.304960
6	-1.311011	-0.113342	0.088110	6	1.194920	-1.282273	-0.290406
6	-0.478773	-0.667081	-1.745771	6	1.292508	0.185917	-1.759391
6	-1.605781	-1.281939	-2.526924	6	2.469345	-0.182594	-2.620221
6	-2.127961	0.985884	-0.232522	6	0.601242	-2.370641	-0.958968
7	-1.553608	2.197449	-0.461847	7	-0.747926	-2.410567	-1.122619
8	-2.251733	3.218105	-0.642981	8	-1.296536	-3.344433	-1.717928
6	0.649651	-1.400441	-1.339186	6	1.251690	1.380565	-1.012199
6	0.579032	-2.887789	-1.126939	6	2.510195	2.020535	-0.492692
6	1.058312	-3.645540	-2.373739	6	2.958820	3.165753	-1.411638
7	1.820005	-0.773770	-1.107255	7	0.075029	1.966668	-0.733754
6	2.954467	-1.363412	-0.376142	6	-0.138373	2.950606	0.344721
6	4.086464	-0.333883	-0.541269	6	-1.566262	3.479079	0.112478
6	3.696519	0.448539	-1.793286	6	-1.916561	3.044791	-1.311982
6	2.178740	0.525605	-1.692577	6	-1.161355	1.732979	-1.484569
6	2.615519	-1.667637	1.090744	6	0.088100	2.293827	1.718262
8	2.159706	-0.674680	1.846062	8	-0.714928	1.306829	2.079492
8	2.724996	-2.789258	1.527918	8	1.021046	2.633379	2.411899
8	-0.287283	2.276765	-0.488385	8	-1.442141	-1.447224	-0.629930
1	3.984496	-0.095989	-2.698586	1	-1.557534	3.776810	-2.042467
1	4.158292	1.437438	-1.829229	1	-2.992022	2.920973	-1.453773
1	4.112349	0.347138	0.312500	1	-2.268751	3.022366	0.812099
1	5.056854	-0.827697	-0.617299	1	-1.606636	4.561004	0.251076
1	3.231623	-2.322180	-0.820881	1	0.599498	3.751301	0.268854
1	1.692391	0.630864	-2.664413	1	-0.916433	1.521092	-2.527438
1	1.839528	1.347784	-1.057521	1	-1.705025	0.871305	-1.083753
1	-2.471464	-0.612615	-2.504434	1	2.385075	-1.230170	-2.925191
1	-1.331132	-1.415131	-3.579976	1	2.492248	0.416886	-3.537919
1	-1.922940	-2.252736	-2.138823	1	3.429837	-0.059591	-2.114705
1	-3.205743	0.973445	-0.317194	1	1.123316	-3.201729	-1.406294
1	-0.344511	0.153727	0.503770	1	0.501782	-0.732001	0.336411
1	-0.222927	-1.712232	1.935855	1	2.102655	-0.093987	1.924739
1	-1.202108	-3.711363	2.989030	1	4.315688	-0.313330	2.976509
1	-3.480515	-4.471740	2.347354	1	6.053470	-1.760059	1.944017
1	-4.767226	-3.197656	0.649668	1	5.539197	-2.994035	-0.147339
1	-3.796648	-1.199566	-0.401402	1	3.328395	-2.787698	-1.196767
1	2.287887	0.256242	1.500283	1	-1.557289	1.175258	1.550757
1	-0.283204	0.371526	-1.994133	1	0.338742	-0.111304	-2.182134
1	-0.452710	-3.163230	-0.904339	1	3.294955	1.264847	-0.440535

1	1.169612	-3.198258	-0.262570	1	2.374880	2.391993	0.525448
1	2.096832	-3.404185	-2.619483	1	2.201502	3.952804	-1.476003
1	0.997552	-4.723006	-2.199456	1	3.877234	3.614751	-1.024538
1	0.444831	-3.408043	-3.246796	1	3.156973	2.809870	-2.426237
8	2.763400	1.851820	1.535301	8	-3.173757	0.950702	1.242699
1	2.247742	2.615314	1.159060	1	-3.491476	0.397613	0.488785
6	3.095084	2.179366	2.874387	6	-3.754368	0.429409	2.437712
1	3.808550	3.010453	2.911273	1	-4.840493	0.573475	2.429730
1	2.207552	2.449805	3.456789	1	-3.518087	-0.632076	2.555398
1	3.555659	1.299934	3.327815	1	-3.331933	0.990524	3.272986
8	1.362973	3.951064	0.677913	8	-3.970656	-0.721519	-0.742742
1	0.574373	3.532897	0.255442	1	-3.128096	-1.209781	-0.892810
6	1.920955	4.873901	-0.233351	6	-4.618299	-0.489381	-1.972720
1	2.197718	4.404806	-1.186741	1	-4.016993	0.128834	-2.653895
1	1.225493	5.695117	-0.439956	1	-4.859544	-1.430035	-2.480963
1	2.821245	5.290673	0.223405	1	-5.551302	0.037772	-1.762496
1	-4.080127	2.826878	-0.797953	1	-2.100727	-2.159893	1.057275
8	-4.951637	2.392741	-0.724661	8	-2.492833	-2.629663	1.812241
6	-5.539115	2.841375	0.471911	6	-3.383925	-3.587464	1.286062
1	-5.757497	3.918866	0.453992	1	-3.783692	-4.155937	2.129546
1	-6.485822	2.308866	0.594875	1	-4.224791	-3.126102	0.750305
1	-4.916010	2.635403	1.354332	1	-2.885186	-4.286490	0.601964
<i>s-si</i> Et = -1457.4721957 (-1457.8693691) (-1457.8946211) NImag=1(-270.74 cm ⁻¹)				<i>s-re</i> Et = -1457.4752176 (-1457.8734863) (-1457.896482) NImag = 1(-294.54 cm ⁻¹)			
6	-1.718096	-1.624621	-0.033618	6	0.998333	-0.344172	1.393389
6	-0.445712	-2.086843	-0.400408	6	-0.345013	0.068677	1.495698
7	0.615237	-1.998414	0.432538	6	-0.669478	1.524832	1.712831
6	0.474395	-1.705983	1.871029	7	-1.382582	-0.792170	1.447885
6	1.802301	-2.168599	2.494836	6	-1.231875	-2.249193	1.394775
6	2.348165	-3.183522	1.496465	6	-2.671728	-2.781311	1.499705
6	1.932497	-2.598552	0.153691	6	-3.409796	-1.675542	2.245216
6	0.142358	-0.245596	2.218769	6	-2.783933	-0.406990	1.680863
8	1.015587	0.692725	1.916195	6	-0.534779	-2.795586	0.145697
8	-0.894630	0.013262	2.793448	8	-0.942135	-2.368188	-1.038013
1	1.878021	-4.162266	1.641466	8	0.348632	-3.617079	0.252297
1	3.430269	-3.308398	1.571558	1	-3.218582	-1.742330	3.321466
1	2.496942	-1.330539	2.577023	1	-4.489797	-1.706101	2.087276
1	1.641478	-2.577157	3.494331	1	-3.100596	-2.895936	0.500582
1	-0.366931	-2.288913	2.258563	1	-2.698956	-3.750784	2.000047
1	1.855929	-3.358780	-0.620361	1	-0.621184	-2.583513	2.240443
1	2.636377	-1.837640	-0.190113	1	-2.842552	0.426033	2.380070
1	1.849844	0.405260	1.430494	1	-3.258713	-0.097633	0.746136
6	-1.842578	0.415606	-0.884508	1	-1.736466	-1.759447	-1.037147
6	-0.750043	1.210606	-0.545484	1	-1.608516	1.773966	1.213961
6	-2.957656	-2.236561	-0.636576	1	0.101523	2.134249	1.233144
1	-3.112543	-3.261689	-0.279047	6	1.577150	-0.083923	-0.708977
1	-3.840040	-1.662257	-0.349739	1	0.788033	-0.758592	-1.016838
1	-2.932546	-2.274898	-1.730572	6	1.386189	1.254982	-1.073390
1	-1.814855	-0.019452	-1.878758	1	1.173400	-1.417159	1.397117
1	-0.746399	1.945330	0.243756	7	0.134337	1.697627	-1.354314
6	-3.171720	0.809642	-0.381191	8	-0.075622	2.905480	-1.629137
6	-3.372517	1.215597	0.945989	8	-0.826194	0.877097	-1.312208
6	-4.629952	1.630398	1.366427	6	2.929439	-0.667401	-0.687348
6	-5.702640	1.650486	0.476882	6	3.067754	-2.059683	-0.787431
6	-5.514457	1.243307	-0.840663	6	4.326924	-2.646635	-0.817233
6	-4.259923	0.818995	-1.263774	6	5.471448	-1.857486	-0.743136
1	-2.550419	1.177931	1.654866	6	5.348766	-0.474018	-0.635207
1	-4.773126	1.936212	2.397705	6	4.091803	0.116000	-0.605784
1	-6.682048	1.977285	0.811342	1	2.181697	-2.685361	-0.835609
1	-6.344155	1.254492	-1.540210	1	4.411778	-3.725340	-0.899395

1	-4.113961	0.505693	-2.293469	1	6.454607	-2.316756	-0.767771
7	0.432109	1.085843	-1.208365	1	6.235522	0.148877	-0.575211
8	0.574040	0.180920	-2.078216	1	4.017753	1.194487	-0.517993
8	1.380979	1.863509	-0.954084	1	2.140102	2.025366	-1.077359
1	-1.840128	-1.287602	0.991319	6	2.082088	0.460976	2.069021
6	-0.231787	-2.726358	-1.751266	1	3.063846	0.073887	1.788702
1	0.756536	-2.468680	-2.134254	1	2.053822	1.521212	1.799436
1	-0.936524	-2.276368	-2.453461	1	2.012153	0.389125	3.161061
6	-0.430135	-4.246831	-1.740716	6	-0.733598	1.919773	3.194174
1	-0.251624	-4.654659	-2.739646	1	0.227195	1.766814	3.689471
1	0.253939	-4.748504	-1.049487	1	-0.986829	2.979779	3.279919
1	-1.447152	-4.515909	-1.446156	1	-1.485286	1.348863	3.748122
8	3.349483	0.267576	0.825294	1	-3.384411	-0.224185	-1.476335
8	3.304751	-0.162523	-1.865152	8	-3.254381	-1.205076	-1.511176
1	3.339753	0.237925	-0.164160	8	-3.374731	1.478495	-1.271862
1	2.356537	0.020320	-2.056675	1	-2.389608	1.527908	-1.346389
6	4.100741	1.400392	1.250208	6	-3.447490	-1.632954	-2.847670
1	4.155166	1.363527	2.339864	1	-3.205434	-2.696090	-2.893110
1	5.120368	1.355578	0.851327	1	-4.489832	-1.497180	-3.159503
1	3.625190	2.340610	0.954406	1	-2.792368	-1.098153	-3.545119
6	4.078877	0.701435	-2.674620	6	-3.959910	2.404713	-2.163415
1	5.125456	0.576822	-2.388105	1	-5.044545	2.324983	-2.062307
1	3.980393	0.445777	-3.736892	1	-3.661097	3.430640	-1.920769
1	3.792083	1.749641	-2.534831	1	-3.690010	2.203806	-3.208099
1	1.595323	3.330607	0.208000	1	0.934725	3.832203	-0.403999
8	1.994415	4.130751	0.590092	8	1.490112	4.061902	0.367046
6	2.161873	5.050543	-0.457851	6	1.318741	5.429344	0.643916
1	2.788823	4.659890	-1.272861	1	1.931188	5.668677	1.517074
1	1.205151	5.374303	-0.894392	1	1.647623	6.071273	-0.185994
1	2.656501	5.933505	-0.044387	1	0.275854	5.686745	0.880194

Table S33. The mPW1PW91/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent-Assisted Pathway (L₂C₂ model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the mPW1PW91/6-311G**//mPW1PW91/6-31G* and PCM-mPW1PW91/6-311G**//mPW1PW91/6-31G* Level of Theory.

<i>a-si</i> Et = -1573.1733583 (-1573.61331648) (-1573.6312005) NImag=1(-197.25 cm ⁻¹)				<i>a-re</i> Et = -1573.170 1132 (-1573.60884173) (-1573.629875) NImag= 1(-234.7 cm ⁻¹)			
6	4.066420	0.693827	-0.810731	6	3.947374	0.237542	-0.808247
6	2.855168	0.004491	-0.977096	6	2.730902	-0.450606	-0.935914
6	2.899503	-1.347715	-1.352529	6	2.761096	-1.799013	-1.323782
6	4.117868	-1.980833	-1.557497	6	3.968010	-2.439626	-1.575515
6	5.313561	-1.282795	-1.393563	6	5.168049	-1.746490	-1.438149
6	5.284361	0.057258	-1.018731	6	5.152742	-0.407199	-1.054805
6	1.602840	0.745090	-0.787603	6	1.427783	0.193563	-0.725519
6	0.445231	0.396350	-1.480960	6	0.994988	-0.012265	1.413950
7	-0.648756	1.202620	-1.481480	6	2.285361	0.364764	2.081782
8	-0.648241	2.317127	-0.875173	6	1.265215	1.578469	-0.872636
8	-1.679924	0.813657	-2.075828	7	0.011722	2.084440	-0.959226
6	1.121841	0.649424	1.421683	8	-0.175985	3.338865	-0.953630
6	2.334249	1.277937	2.046528	6	0.463246	-1.309140	1.460083
6	0.810139	-0.705081	1.523163	6	1.347514	-2.507209	1.684961
6	1.870874	-1.717796	1.867942	6	1.352907	-2.909179	3.166211
6	1.868919	-2.050515	3.365331	7	-0.859944	-1.513171	1.313791
7	-0.449409	-1.148646	1.301228	6	-1.471380	-2.805980	0.958435
6	-0.818982	-2.570660	1.163385	6	-2.984913	-2.584863	1.145448
6	-2.307807	-2.638646	1.558312	6	-3.097484	-1.273934	1.928325
6	-2.621481	-1.259957	2.146966	6	-1.880967	-0.477059	1.476610
6	-1.662971	-0.332931	1.410563	6	-1.044592	-3.226120	-0.460171
6	-0.471750	-3.051222	-0.256019	8	-1.439157	-2.487935	-1.486090
8	-1.224291	-2.657746	-1.270691	8	-0.304165	-4.171711	-0.621626
8	0.521451	-3.721751	-0.444176	8	-0.980549	1.310707	-1.009416
1	-2.404402	-1.233948	3.219492	1	-3.039975	-1.458020	3.005932
1	-3.664826	-0.971706	2.003715	1	-4.031565	-0.747628	1.722763
1	-2.942503	-2.822692	0.689788	1	-3.485538	-2.474874	0.182165
1	-2.478650	-3.450516	2.268269	1	-3.438127	-3.432019	1.663854
1	-0.209993	-3.178319	1.831814	1	-1.100038	-3.588770	1.622425
1	-1.464178	0.596440	1.942667	1	-1.554002	0.261232	2.209448
1	-2.053911	-0.078593	0.418542	1	-2.045275	0.057488	0.534657
1	3.250920	0.702682	1.891454	1	2.642930	1.321138	1.687819
1	2.483726	2.277987	1.630054	1	2.144269	0.499008	3.161442
1	2.200460	1.400892	3.128859	1	3.080770	-0.369863	1.938003
1	1.731739	1.794107	-0.543069	1	2.046137	2.324007	-0.820490
1	0.288511	-0.534383	-2.003720	1	0.566489	-0.396440	-1.017264
1	1.986360	-1.922466	-1.464145	1	1.829399	-2.345967	-1.438274
1	4.131385	-3.027680	-1.842276	1	3.968796	-3.480088	-1.883231
1	6.262907	-1.782930	-1.556311	1	6.111545	-2.245503	-1.634587
1	6.209897	0.609726	-0.892433	1	6.084083	0.140729	-0.954920
1	4.042449	1.742725	-0.531344	1	3.954899	1.284838	-0.526015
1	0.294708	1.336964	1.274070	1	-2.170891	-1.821569	-1.329564
1	2.843477	-1.309891	1.590007	1	0.266492	0.791367	1.379903
1	1.747500	-2.625988	1.273712	1	2.362486	-2.262404	1.368021
1	0.911691	-2.471546	3.688050	1	1.032517	-3.353616	1.071443
1	2.649414	-2.782852	3.589301	1	0.348984	-3.169944	3.514632
1	2.057180	-1.158965	3.969688	1	1.997769	-3.779302	3.315584
1	-2.080666	-2.184142	-1.060549	1	1.724389	-2.098829	3.799347
8	-3.684935	-1.738989	-1.189541	8	-3.590686	-0.998269	-1.595852
1	-3.919246	-0.787110	-1.058524	1	-3.606000	-0.005532	-1.533635
6	-4.105329	-2.103334	-2.494832	6	-4.064330	-1.353238	-2.883957

1	-5.194549	-2.033897	-2.587639	1	-5.125939	-1.104887	-2.993888
1	-3.639613	-1.471712	-3.258633	1	-3.499717	-0.850644	-3.676863
1	-3.802106	-3.138327	-2.661270	1	-3.941649	-2.431763	-2.998362
8	-4.198926	0.887117	-1.164015	8	-3.549045	1.658316	-1.635675
1	-3.325827	1.195546	-1.483078	1	-2.587376	1.811624	-1.509030
6	-4.788514	1.851157	-0.311182	6	-4.261969	2.494962	-0.741480
1	-5.672985	1.392416	0.135966	1	-3.768635	2.561302	0.233989
1	-4.109076	2.170481	0.486800	1	-4.365533	3.506146	-1.153600
1	-5.111063	2.732878	-0.878866	1	-5.262080	2.073682	-0.613978
1	-1.653884	2.692490	0.624094	1	-1.257848	3.272261	0.640297
8	-1.957707	2.851466	1.536311	1	1.437720	4.317686	-0.964340
6	-1.627070	4.182261	1.875216	8	-1.601326	3.038281	1.521986
1	-1.821717	4.305577	2.943221	6	-1.482274	4.172109	2.347617
1	-0.570614	4.405215	1.683397	1	-2.069637	5.024914	1.979371
1	-2.242964	4.912428	1.331325	1	-1.864500	3.901038	3.334850
1	0.700962	3.496565	-0.406862	1	-0.439842	4.500291	2.464998
8	1.454559	4.000171	-0.048854	8	2.363323	4.577414	-0.795277
6	1.794654	5.007399	-0.974929	6	2.405512	5.187328	0.469513
1	0.979089	5.727612	-1.124020	1	3.447486	5.443372	0.678139
1	2.653570	5.546906	-0.569577	1	1.816679	6.115111	0.510036
1	2.077757	4.599531	-1.954963	1	2.051874	4.525301	1.275054
<i>s-si</i>				<i>s-re</i>			
Et = -1573.1712209 (-1573.61095229) (-1573.6310052) NImag=1(-174.00 cm ⁻¹)				Et = -1573.1718951 (-1573.61041461) (-1573.6310695) NImag = 1(-248.80 cm ⁻¹)			
6	4.353867	0.545119	-1.084305	6	1.508675	-0.707572	1.318495
6	3.287030	-0.343148	-0.883417	6	0.149434	-0.903095	1.610537
6	3.545157	-1.721867	-0.851110	6	-0.605730	0.127440	2.413128
6	4.838901	-2.191783	-1.032906	7	-0.531819	-2.010502	1.240177
6	5.890504	-1.302466	-1.251314	6	0.082289	-3.158830	0.569489
6	5.645114	0.067506	-1.275596	6	-1.059717	-4.182364	0.459117
6	1.937564	0.218569	-0.756550	6	-1.951832	-3.844744	1.647434
6	0.850972	-0.416801	-1.342025	6	-1.898164	-2.323049	1.693428
7	-0.341631	0.221234	-1.514209	6	0.692140	-2.872040	-0.803982
8	-1.276211	-0.401598	-2.074713	8	-0.028407	-2.199210	-1.683660
8	-0.500763	1.413299	-1.132692	8	1.801614	-3.279143	-1.072291
6	1.746359	0.061550	1.557448	1	-1.538240	-4.266060	2.569827
6	2.948314	0.832599	2.023211	1	-2.972325	-4.215689	1.531233
6	0.445790	0.543388	1.663806	1	-1.611556	-4.025495	-0.472457
6	0.191150	2.011234	1.898818	1	-0.677330	-5.204489	0.464211
6	0.080389	2.328105	3.394477	1	0.904994	-3.546207	1.181020
7	-0.612943	-0.308575	1.587973	1	-2.065127	-1.938264	2.699154
6	-0.497187	-1.734427	1.953310	1	-2.637772	-1.861656	1.034395
6	-1.890294	-2.124120	2.495177	1	-0.973722	-1.978591	-1.421677
6	-2.609263	-0.793191	2.717636	1	-1.652884	0.143017	2.103130
6	-2.021247	0.095276	1.631534	1	-0.201305	1.117569	2.183084
6	-0.004515	-2.645667	0.817020	6	1.594991	0.520150	-0.604562
8	1.103274	-3.137280	0.867073	1	1.022858	-0.256794	-1.095935
8	-0.803528	-2.893253	-0.207677	6	0.919709	1.723174	-0.390451
8	-2.413935	3.096851	0.034788	1	2.040794	-1.545104	0.875127
6	-3.706194	3.348868	-0.468081	7	-0.434302	1.753442	-0.440484
8	-3.386634	-2.373842	-0.438257	8	-1.044773	2.854532	-0.277437
6	-3.730091	-3.453768	-1.288528	8	-1.082389	0.696914	-0.636227
8	-3.874488	-0.012768	-1.675000	6	3.042729	0.502921	-0.842817
6	-4.611727	0.073948	-2.878883	6	3.608490	-0.603340	-1.495719
1	-2.371567	-0.379479	3.703336	6	4.967557	-0.636996	-1.781327
1	-3.694163	-0.887022	2.636530	6	5.788259	0.427363	-1.417732
1	-2.443427	-2.715823	1.763771	6	5.241583	1.528482	-0.761677
1	-1.795326	-2.721961	3.403942	6	3.883775	1.567049	-0.475247
1	0.268573	-1.819637	2.728224	1	2.978949	-1.444014	-1.770880
1	-2.133857	1.159128	1.819477	1	5.385332	-1.499848	-2.289518
1	-2.487987	-0.109144	0.661422	1	6.849909	0.399737	-1.641806

1	-1.716128	-2.491687	-0.186077	1	5.875364	2.360635	-0.472555
1	3.043169	0.798602	3.116184	1	3.478145	2.430041	0.041677
1	3.860034	0.394274	1.611453	1	1.373217	2.671341	-0.151926
1	2.926265	1.885987	1.730308	6	2.355761	0.183876	2.190304
1	1.893135	1.295294	-0.649668	1	3.335859	0.333695	1.732542
1	0.849647	-1.434873	-1.697645	1	1.909551	1.170085	2.351294
1	2.740223	-2.420663	-0.644826	1	2.532753	-0.268824	3.173731
1	5.029088	-3.259589	-0.997416	6	-0.507432	-0.086090	3.929674
1	6.898973	-1.677436	-1.394379	1	0.525464	-0.018834	4.276604
1	6.459107	0.765807	-1.441566	1	-1.083601	0.685578	4.447259
1	4.155260	1.612653	-1.107768	1	-0.897333	-1.060090	4.240957
1	1.881989	-1.014677	1.510217	1	-3.065116	-1.184879	-1.017760
1	-0.705005	2.355312	1.384086	8	-2.605851	-1.801075	-1.636224
1	1.007759	2.581892	1.453723	8	-3.586935	0.050025	0.080104
1	-0.076027	3.400650	3.539729	1	-2.800653	0.600140	-0.122221
1	-0.762925	1.803911	3.855510	6	-2.783760	-1.281460	-2.949143
1	0.985982	2.041868	3.936685	1	-2.062403	-1.777969	-3.600479
1	-3.662088	-1.532639	-0.878830	1	-3.794133	-1.495759	-3.316578
1	-2.915925	0.088417	-1.883043	1	-2.611579	-0.200850	-2.976983
1	-3.366228	-4.370599	-0.821852	6	-4.770925	0.819399	-0.077100
1	-4.816993	-3.530999	-1.409025	1	-5.605543	0.121372	-0.172373
1	-3.264245	-3.360521	-2.276506	1	-4.945884	1.447761	0.804943
1	-5.659313	-0.119979	-2.640079	1	-4.715397	1.454532	-0.964963
1	-4.537767	1.074713	-3.320198	1	-0.250363	3.545544	1.269382
1	-4.278649	-0.661171	-3.621945	8	0.325192	3.622291	2.053113
1	-1.971881	2.454924	-0.546274	6	-0.199790	4.619567	2.894680
1	-3.681185	3.871275	-1.435705	1	0.449599	4.684963	3.771115
1	-4.291148	2.428460	-0.585167	1	-0.219737	5.607858	2.413578
1	-4.214652	3.997503	0.249408	1	-1.217071	4.388251	3.242174
1	0.724346	2.866176	-1.194664	1	-2.432734	2.729699	-1.548592
8	1.406045	3.520111	-0.966712	8	-3.096414	2.610889	-2.253055
6	0.787544	4.788314	-0.935508	6	-3.071981	3.756050	-3.066926
1	0.573905	5.167356	-1.945554	1	-3.341071	4.671494	-2.519501
1	-0.149843	4.776737	-0.365959	1	-2.091842	3.917077	-3.538379
1	1.481972	5.482763	-0.455963	1	-3.807892	3.611303	-3.861917

Table S34. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Propanal (**1**) to Nitrostyrene Using Unassisted Pathway . The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1031.9969962 (-1032.273592) (-1032.3096274) NImag=1(-307.01 cm ⁻¹)				<i>a-re</i> Et = -1031.999442 (-1032.2766162) (-1032.3096078) NImag= 1(-356.42 cm ⁻¹)			
6	3.671270	-0.981329	0.353200	6	-3.182880	1.174011	-0.056641
6	2.450317	-0.293304	0.285071	6	-2.836779	-0.149366	0.266663
6	2.475389	1.089506	0.032127	6	-3.856022	-1.115023	0.297823
6	3.686489	1.758279	-0.139911	6	-5.180380	-0.768437	0.027456
6	4.894778	1.061246	-0.063501	6	-5.508453	0.550061	-0.288434
6	4.883527	-0.311486	0.185611	6	-4.503744	1.520814	-0.329688
6	1.168315	-1.037740	0.497940	6	-1.439523	-0.544612	0.587163
6	0.253428	-0.409493	1.416305	6	-0.570259	-0.709116	-1.288837
7	-0.884856	-1.018304	1.796737	6	-0.691446	0.293708	1.444861
8	-1.075271	-2.249979	1.572290	7	0.522743	-0.116605	1.905825
8	-1.828740	-0.318590	2.357392	8	1.242612	0.629955	2.607790
6	0.381140	-1.401067	-1.202224	6	0.827991	-0.707612	-1.086021
6	-0.467163	-0.273776	-1.413848	7	1.582043	0.372810	-0.927644
7	-1.724543	-0.207001	-1.032326	6	3.060048	0.388931	-0.790964
6	-2.464197	1.084785	-0.860191	6	3.269961	1.647514	0.066140
6	-3.808882	0.642125	-0.268433	6	2.272572	2.642155	-0.557643
6	-4.027175	-0.749074	-0.878886	6	1.095504	1.767836	-1.053431
6	-2.627915	-1.369508	-0.817362	6	3.814607	-0.858773	-0.281980
6	-1.630526	2.106476	-0.048185	8	3.352652	-1.571592	0.733769
8	-1.640738	2.036117	1.272627	8	4.876451	-1.109099	-0.812978
8	-1.002801	2.953794	-0.656433	8	0.912623	-1.297237	1.559247
1	-4.374972	-0.671133	-1.916077	1	2.732694	3.166343	-1.401470
1	-4.752660	-1.344707	-0.319124	1	1.937991	3.394903	0.160445
1	-3.729649	0.555232	0.818437	1	3.002514	1.430171	1.105730
1	-4.601016	1.357101	-0.504992	1	4.305567	1.993071	0.026773
1	-2.594683	1.533932	-1.849812	1	3.480226	0.557132	-1.790030
1	-2.433221	-2.110208	-1.597395	1	0.839832	1.970641	-2.101937
1	-2.417072	-1.825199	0.159498	1	0.197746	1.892701	-0.450924
1	1.322224	-2.098499	0.698634	1	-0.968802	1.297805	1.730818
1	0.330146	0.633606	1.681189	1	-1.293319	-1.606847	0.760328
1	1.548751	1.655581	-0.027001	1	-3.608313	-2.141478	0.555810
1	3.684313	2.827652	-0.332079	1	-5.954419	-1.529952	0.065338
1	5.837190	1.585504	-0.196181	1	-6.538394	0.821289	-0.502722
1	5.817580	-0.862830	0.252248	1	-4.750797	2.549654	-0.577153
1	3.670117	-2.049323	0.558294	1	-2.410345	1.937952	-0.098308
1	-0.162787	-2.305638	-0.932892	1	2.464188	-1.302949	1.127409
1	-1.833508	1.113375	1.689513	1	-0.986245	0.213308	-1.688523
6	1.495862	-1.638992	-2.207683	1	1.354490	-1.653712	-1.008810
1	2.000350	-0.708531	-2.485487	6	-1.173630	-1.977538	-1.860990
1	2.251684	-2.316258	-1.798043	1	-2.255543	-2.004942	-1.698970
1	1.099325	-2.098267	-3.121334	1	-1.005100	-2.053631	-2.942806
1	-0.023860	0.675114	-1.715482	1	-0.737578	-2.868446	-1.393756
<i>s-si</i> Et = -1032.0017757 (-1032.2779349) (-1032.3072107) NImag=1(-351.61 cm ⁻¹)				<i>s-re</i> Et = -1031.9934454 (-1032.2708424) (-1032.3049882) NImag = 1(-389.86 cm ⁻¹)			
6	0.308555	-0.785777	-1.378104	6	0.141909	0.162825	1.352800
6	-1.009507	-1.226524	-1.126070	6	-1.182087	0.655216	1.213599
7	-2.031672	-0.472664	-0.724370	7	-2.270581	-0.001803	0.810853
6	-2.169891	0.994817	-0.910468	6	-2.312230	-1.389274	0.335665
6	-3.685710	1.254506	-0.691100	6	-3.831601	-1.665366	0.116474

6	-4.357559	-0.121580	-0.831921	6	-4.552843	-0.524900	0.856066
6	-3.301966	-1.072818	-0.271399	6	-3.587189	0.651394	0.704199
6	-1.312589	1.912629	-0.005022	6	-1.566503	-1.675553	-0.981156
8	-1.525678	1.899355	1.310076	8	-1.429361	-0.681762	-1.866428
8	-0.551989	2.706012	-0.522904	8	-1.223132	-2.809515	-1.230881
1	-4.555116	-0.353478	-1.885100	1	-4.678482	-0.769065	1.916950
1	-5.303799	-0.180988	-0.287317	1	-5.539825	-0.312132	0.436592
1	-3.842088	1.647361	0.317678	1	-4.062222	-1.622666	-0.953166
1	-4.061499	1.996763	-1.399775	1	-4.105938	-2.660481	0.472128
1	-1.858208	1.231169	-1.931475	1	-1.884991	-2.054311	1.092920
1	-3.378207	-2.098511	-0.638287	1	-3.687503	1.412916	1.481974
1	-3.286210	-1.099891	0.826713	1	-3.677353	1.146577	-0.270825
1	-1.771480	1.002193	1.716343	1	-1.445325	0.243037	-1.487047
6	1.210967	-0.941555	0.423561	6	1.154520	0.574120	-0.336306
6	0.355631	-0.410284	1.423727	1	0.486332	-0.017382	-0.946345
1	1.250894	-2.027730	0.396173	6	1.133203	1.961261	-0.633899
1	0.458751	0.579193	1.839714	1	0.239843	-0.921599	1.295520
6	2.524044	-0.269419	0.213491	7	-0.031371	2.574957	-0.984083
6	2.638565	1.129358	0.124446	8	-0.069612	3.788862	-1.259696
6	3.887912	1.724963	-0.036615	8	-1.127932	1.876372	-0.954088
6	5.041769	0.940282	-0.114042	6	2.463410	-0.110708	-0.140920
6	4.938982	-0.448950	-0.035726	6	2.556323	-1.477703	-0.455931
6	3.688691	-1.048098	0.119839	6	3.758869	-2.166284	-0.308634
1	1.750274	1.754801	0.164608	6	4.893538	-1.501992	0.161538
1	3.959346	2.806975	-0.104980	6	4.815274	-0.145397	0.483010
1	6.013711	1.409780	-0.239248	6	3.611785	0.543460	0.336647
1	5.829987	-1.068108	-0.095656	1	1.678224	-2.000386	-0.829799
1	3.613026	-2.130622	0.188429	1	3.810024	-3.220587	-0.566291
7	-0.778659	-1.078061	1.760239	1	5.832524	-2.036771	0.275557
8	-0.966416	-2.255917	1.348584	1	5.693794	0.379883	0.847943
8	-1.691217	-0.473967	2.450589	1	3.569265	1.597809	0.593352
1	0.432100	0.289100	-1.505183	1	1.973579	2.632776	-0.544934
6	1.147353	-1.638308	-2.313175	1	-1.381672	1.672649	1.535063
1	2.212935	-1.426976	-2.186666	6	0.943337	0.808118	2.473834
1	0.987313	-2.707197	-2.126709	1	0.548840	0.538857	3.461653
1	0.896108	-1.443078	-3.363042	1	1.988677	0.490660	2.437598
1	-1.224605	-2.289001	-1.176587	1	0.917879	1.901189	2.390607

Table S35. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (2) to Nitrostyrene Using Unassisted Pathway . The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1110.6261298 (-1110.92281077) (-1110.95588907) NImag=1(-304.9 cm ⁻¹)				<i>a-si (II)</i> Et = -1110.6071035 (-1110.9056829) (-1110.941439) NImag=1(-349.91 cm ⁻¹)			
6	-3.770821	-0.924237	0.462139	6	0.556100	-0.085385	-1.033776
6	-2.554209	-0.559726	-0.137072	6	-0.827353	-0.262988	-0.657167
6	-2.581356	0.421262	-1.144360	6	-1.459270	-1.631653	-0.785222
6	-3.781267	1.016055	-1.531415	7	-1.603668	0.790647	-0.284286
6	-4.981966	0.643890	-0.922275	6	-2.877026	0.587700	0.469951
6	-4.972790	-0.331828	0.074862	6	-3.117798	1.928159	1.208045
6	-1.294005	-1.246047	0.287187	6	-1.708833	2.506865	1.357369
6	-0.368388	-1.580907	-0.756050	6	-1.056814	2.141855	0.023914
7	0.701347	-2.361439	-0.497547	6	-4.085504	0.267543	-0.411376
8	0.781213	-3.031477	0.570585	8	-4.012961	0.716596	-1.691053
8	1.694234	-2.374732	-1.333348	8	-5.075128	-0.268376	0.014793
6	-0.426096	-0.244889	1.687839	1	-1.177159	2.003336	2.171172
6	-1.500142	0.253281	2.640317	1	-1.703326	3.585356	1.540988
6	0.440719	0.692675	1.028187	1	-3.742629	2.594885	0.601072
6	-0.055417	2.057691	0.615013	1	-3.632000	1.757292	2.155673
6	0.344430	3.130078	1.654718	1	-2.730772	-0.216157	1.193807
7	1.676481	0.314221	0.686367	1	0.027954	2.127365	0.077061
6	2.546731	1.027651	-0.302158	1	-1.350277	2.843199	-0.769150
6	3.889148	0.275387	-0.219167	1	-3.105117	1.039349	-1.845539
6	3.921151	-0.246922	1.219103	1	-2.266684	-1.755501	-0.064123
6	2.477584	-0.699991	1.438627	1	-0.695089	-2.363866	-0.503691
6	1.992279	1.105800	-1.747796	6	1.609135	-0.235874	0.546920
8	1.767589	-0.012165	-2.418489	1	1.087806	0.539095	1.104672
8	1.830288	2.201628	-2.250497	6	1.475914	-1.504207	1.190964
1	4.191438	0.553307	1.918986	1	0.799872	0.944002	-1.290236
1	4.624745	-1.072677	1.354713	7	0.324883	-1.765854	1.877560
1	3.887807	-0.566724	-0.918061	8	0.164012	-2.839203	2.495680
1	4.723816	0.933256	-0.474285	8	-0.595617	-0.866150	1.832422
1	2.667623	2.065651	0.017237	6	2.986241	0.201622	0.142899
1	2.170264	-0.680546	2.486183	6	3.303447	1.568620	0.177084
1	2.304397	-1.707148	1.047315	6	4.574091	2.026990	-0.169109
1	-2.127115	1.038489	2.210413	6	5.559429	1.120624	-0.563063
1	-2.161744	-0.572527	2.920607	6	5.261216	-0.242756	-0.604123
1	-1.055916	0.639511	3.566340	6	3.989276	-0.697049	-0.256744
1	-1.484956	-2.075875	0.967042	1	2.547605	2.282716	0.498719
1	-0.346880	-1.077342	-1.709760	1	4.795368	3.090057	-0.124753
1	-1.661911	0.720636	-1.639263	1	6.551489	1.472421	-0.832330
1	-3.777589	1.768545	-2.315260	1	6.022213	-0.957825	-0.904888
1	-5.916322	1.107071	-1.227101	1	3.777710	-1.761298	-0.293928
1	-5.901399	-0.637852	0.549066	1	2.195013	-2.308576	1.175815
1	-3.775479	-1.695459	1.228484	6	1.164526	-1.041604	-2.052330
1	0.110169	-1.102605	2.088672	1	2.226595	-0.815609	-2.173590
1	-1.143236	2.029432	0.525829	1	1.081666	-2.088012	-1.744150
1	0.335572	2.348313	-0.362703	1	0.697493	-0.936912	-3.037510
1	1.432269	3.208325	1.755315	6	-1.993718	-1.974515	-2.195463
1	-0.034284	4.106826	1.337741	1	-1.210706	-1.959823	-2.956622
1	-0.070824	2.908530	2.642823	1	-2.417148	-2.983818	-2.172817
1	1.824675	-0.909978	-1.924279	1	-2.789184	-1.291841	-2.505958
<i>a-re</i> Et = -1110.6242292 (-1110.92146213) (-1110.95292843) NImag= 1(-343.6 cm ⁻¹)				<i>a-re (II)</i> Et = -1110.6204426 (-1110.9183167) (-1110.952648) NImag= 1(-263.39 cm ⁻¹)			

6	-3.500635	-0.891771	0.766366	6	-3.662511	0.686711	-0.489026
6	-3.028498	-0.140942	-0.323793	6	-2.572247	0.180957	0.239155
6	-3.946541	0.642533	-1.041042	6	-2.810655	-0.869712	1.139687
6	-5.296668	0.664126	-0.691203	6	-4.089653	-1.403529	1.303875
6	-5.751899	-0.089558	0.391296	6	-5.159564	-0.895191	0.567206
6	-4.847669	-0.866781	1.120234	6	-4.940618	0.155289	-0.327137
6	-1.604013	-0.174309	-0.748006	6	-1.186734	0.746328	0.118591
6	-0.700278	1.044056	0.702248	6	-0.350000	0.024025	-1.436922
6	-1.477466	2.348273	0.627626	6	-1.371087	-0.602296	-2.378003
6	-0.967971	-1.431482	-0.818365	6	-1.103038	2.182918	0.055406
7	0.248559	-1.562930	-1.419482	7	0.038667	2.852915	0.345725
8	0.876598	-2.645602	-1.367583	8	0.076558	4.099610	0.305312
6	0.696709	1.029419	0.416707	6	0.672172	-0.822560	-0.867697
6	1.308908	2.151323	-0.394638	6	0.309470	-2.187877	-0.330679
6	2.052832	3.185929	0.475530	6	0.725902	-3.305027	-1.313550
7	1.479004	0.041366	0.882946	7	1.924570	-0.390317	-0.732174
6	2.957247	-0.101829	0.722475	6	2.888378	-0.909462	0.274467
6	3.177572	-1.582116	1.077364	6	4.109325	0.029752	0.135122
6	2.241560	-1.774641	2.272885	6	4.017525	0.539006	-1.308317
6	1.002683	-0.947167	1.897998	6	2.512967	0.743290	-1.489446
6	3.710465	0.259589	-0.580881	6	2.354971	-0.936688	1.723781
8	3.282637	-0.165549	-1.759495	8	1.604206	0.073036	2.155242
8	4.771668	0.835852	-0.451761	8	2.659232	-1.866020	2.440995
8	0.736043	-0.534734	-2.023215	8	1.126006	2.190396	0.629372
1	2.704242	-1.380589	3.184657	1	4.398906	-0.210926	-2.011874
1	1.985530	-2.822469	2.450788	1	4.573016	1.467679	-1.463685
1	2.864792	-2.208359	0.234432	1	4.010198	0.869605	0.831274
1	4.227806	-1.783558	1.301791	1	5.038350	-0.496341	0.365938
1	3.437269	0.526273	1.480962	1	3.161957	-1.940157	0.034486
1	0.580670	-0.411169	2.756424	1	2.181283	0.697500	-2.529276
1	0.223466	-1.570706	1.462156	1	2.179490	1.679644	-1.024445
1	-1.556005	2.741558	-0.392659	1	-2.144947	0.125865	-2.632869
1	-2.496494	2.189780	0.987495	1	-0.890273	-0.910599	-3.315186
1	-1.029340	3.135690	1.246938	1	-1.873559	-1.474275	-1.950884
1	-1.327151	-2.330363	-0.338938	1	-1.915718	2.820451	-0.258349
1	-1.349555	0.509664	-1.551943	1	-0.549392	0.334698	0.894484
1	-3.599063	1.226314	-1.889559	1	-1.989022	-1.254171	1.739291
1	-5.991922	1.270235	-1.265544	1	-4.249133	-2.209351	2.015251
1	-6.802465	-0.071198	0.667518	1	-6.156984	-1.307085	0.693625
1	-5.193429	-1.454177	1.966546	1	-5.769048	0.565946	-0.898127
1	-2.806486	-1.496082	1.344928	1	-3.514180	1.509577	-1.182539
1	2.325988	-0.488086	-1.804340	1	1.423693	0.829765	1.511967
1	-1.004814	0.421713	1.537670	1	0.054926	0.938714	-1.860048
1	0.505027	2.651174	-0.938087	1	-0.770029	-2.228729	-0.170888
1	1.979057	1.758276	-1.158691	1	0.776963	-2.378780	0.639453
1	2.950896	2.761984	0.933419	1	1.807643	-3.308971	-1.483174
1	2.372968	4.024350	-0.151105	1	0.445718	-4.279817	-0.902334
1	1.412470	3.583064	1.270517	1	0.231861	-3.190206	-2.283388
<i>a-re (II) (without H-bonding)</i>				<i>s-si</i>			
Et = -1110.6141063 (-1110.9122106)				Et = -1110.6261066 (-1110.92268724)			
(-1110.945815)				(-1110.95080050)			
NImag=1(-332.04 cm ⁻¹)				NImag=1(-338.25 cm ⁻¹)			
6	-0.626124	1.110141	-0.473129	6	-0.289313	1.010489	-0.842111
6	0.757549	0.939084	-0.126850	6	1.024902	1.258509	-0.356116
7	1.460670	-0.100346	-0.631770	7	1.933517	0.263882	-0.307872
6	2.727029	-0.599720	-0.021414	6	1.909325	-0.944340	-1.184808
6	3.002066	-1.951357	-0.732534	6	3.369845	-1.475143	-1.155849
6	1.630728	-2.389999	-1.257010	6	4.204841	-0.333531	-0.559866
6	0.963378	-1.072048	-1.648223	6	3.229110	0.342456	0.400758
6	3.939621	0.311832	-0.216198	6	0.925079	-2.091238	-0.843063
8	3.988413	0.985820	-1.399414	8	1.082923	-2.762510	0.297022
8	4.848943	0.372859	0.568442	8	0.117158	-2.440528	-1.681562

1 3.704873 -1.808128 -1.562383	1 4.513878 0.373027 -1.339537
1 3.443141 -2.663545 -0.033375	1 5.104468 -0.692494 -0.052181
1 2.550388 -0.745656 1.048909	1 3.424459 -2.357219 -0.511975
1 -0.120113 -1.135482 -1.639089	1 3.693601 -1.774335 -2.156029
1 1.280651 -0.736051 -2.647846	1 1.618814 -0.615876 -2.185517
1 3.137643 0.878644 -1.859999	1 3.494815 1.372247 0.624676
6 -1.627591 -0.021291 0.745389	1 3.119489 -0.198712 1.351452
6 -1.042783 -1.304333 0.953756	1 1.376940 -2.216610 1.100538
6 -1.264782 2.486418 -0.351063	6 -1.292292 0.443077 0.850704
1 -0.875864 3.181897 -1.103655	6 -0.572158 -0.600783 1.482900
1 -2.343025 2.406661 -0.510079	6 -1.118358 2.133915 -1.440736
1 -1.109301 2.938242 0.633824	1 -0.657429 2.533502 -2.353028
1 -1.510666 0.643312 1.600537	1 -2.107530 1.758382 -1.712242
1 -1.403673 -2.222930 0.514898	1 -1.265953 2.972434 -0.751711
6 -3.019029 -0.033549 0.187461	1 -1.208453 1.412268 1.335671
6 -3.353049 -0.771275 -0.959517	1 -0.797341 -1.646730 1.350442
6 -4.661049 -0.796125 -1.440635	6 -2.654740 0.127326 0.339420
6 -5.664377 -0.079382 -0.784441	6 -2.923847 -1.037998 -0.400246
6 -5.347080 0.661730 0.354407	6 -4.220152 -1.315950 -0.829904
6 -4.036053 0.687212 0.831693	6 -5.268063 -0.440710 -0.532220
1 -2.583774 -1.337476 -1.479760	6 -5.010501 0.722835 0.193860
1 -4.897673 -1.376115 -2.328739	6 -3.712855 1.006874 0.618992
1 -6.684012 -0.098410 -1.159118	1 -2.118474 -1.721189 -0.657393
1 -6.119901 1.221238 0.874564	1 -4.410966 -2.219607 -1.402261
1 -3.797694 1.261130 1.723639	1 -6.277229 -0.662682 -0.868536
7 0.090863 -1.423616 1.705383	1 -5.818025 1.410822 0.429530
8 0.585638 -0.364734 2.215748	1 -3.516746 1.912438 1.188061
8 0.650997 -2.544359 1.846203	7 0.580582 -0.329113 2.153493
1 -0.911629 0.634834 -1.407670	8 0.899341 0.857843 2.424941
6 1.440389 1.922138 0.802392	8 1.370596 -1.303298 2.467976
1 2.254296 1.440723 1.344724	1 -0.415503 0.069002 -1.370899
1 0.713470 2.202255 1.568295	6 1.414777 2.647019 0.113982
6 1.967764 3.194169 0.101335	1 1.989358 2.597285 1.038003
1 2.412712 3.853817 0.853596	1 0.503168 3.191884 0.367385
1 2.745166 2.964083 -0.631658	6 2.189431 3.424199 -0.969585
1 1.172884 3.751565 -0.401179	1 2.423982 4.432397 -0.611949
1 1.068083 -2.866950 -0.449797	1 3.134285 2.930528 -1.223566
1 1.701717 -3.078478 -2.104269	1 1.607369 3.521755 -1.891970
<i>s-si(II)</i> (without H-bonding) Et = -1110.6103846 (-1110.9091252) (-1110.940734) NImag=1(-373.45 cm ⁻¹)	<i>s-re</i> Et = -1110.6202785 (-1110.91838936) (-1110.95138960) NImag = 1(-359.10 cm ⁻¹)
6 -2.686383 -1.308104 -0.830279	6 0.171586 -0.198978 -1.112111
6 -2.575366 0.005567 -0.346957	6 -1.158278 -0.656268 -0.824462
6 -3.695770 0.575651 0.279486	6 -1.460040 -2.137419 -0.894598
6 -4.886696 -0.139264 0.404078	7 -2.163899 0.182012 -0.526775
6 -4.981986 -1.442072 -0.088410	6 -2.045713 1.652736 -0.470560
6 -3.874646 -2.026050 -0.705536	6 -3.489756 2.146609 -0.168590
6 -1.277288 0.735932 -0.521250	6 -4.389390 0.952048 -0.508517
6 -1.304770 2.161135 -0.592902	6 -3.523144 -0.252259 -0.140543
7 -0.177795 2.809062 -0.999568	6 -1.113929 2.241321 0.604934
8 0.845870 2.071251 -1.269527	8 -1.011001 1.608270 1.776742
8 -0.123824 4.055720 -1.073887	8 -0.602312 3.322619 0.410489
6 -0.169438 0.114137 0.905006	1 -4.619157 0.930593 -1.580092
6 -0.848575 0.545295 2.198966	1 -5.334728 0.964868 0.040836
6 1.180866 0.553807 0.653410	1 -3.578531 2.388785 0.895680
6 1.749347 1.755668 1.375200	1 -3.721965 3.050768 -0.735120
6 2.476342 1.358999 2.678338	1 -1.687588 2.026248 -1.434465
7 2.054104 -0.214251 -0.056006	1 -3.809572 -1.155060 -0.678876
6 1.681728 -1.511612 -0.662803	1 -3.539776 -0.473234 0.934745
6 2.898532 -1.869041 -1.545259	1 -1.139995 0.613250 1.748875
6 3.416283 -0.497711 -1.989561	1 -2.165835 -2.410477 -0.109298

6	3.242051	0.373551	-0.742525	1	-0.534667	-2.671624	-0.658698
6	1.418670	-2.622659	0.361359	6	1.250998	-0.338253	0.570232
8	2.082621	-2.509184	1.532848	1	0.718332	0.469456	1.050801
8	0.720688	-3.572806	0.110763	6	1.112861	-1.582818	1.246790
1	2.793955	-0.099748	-2.798132	1	0.254889	0.880004	-1.237408
1	4.453330	-0.524054	-2.336117	7	-0.034086	-1.885604	1.918865
1	3.655120	-2.389927	-0.945338	8	-0.140890	-2.946308	2.563898
1	2.609595	-2.528179	-2.366638	8	-1.048576	-1.079551	1.826434
1	0.785300	-1.419499	-1.279958	6	2.613629	0.100425	0.148272
1	3.029149	1.411549	-0.995746	6	2.877626	1.478833	0.069990
1	4.119321	0.326720	-0.085148	6	4.139568	1.946478	-0.293787
1	-0.941503	1.633306	2.273281	6	5.162756	1.044248	-0.590645
1	-1.856740	0.125817	2.237461	6	4.913079	-0.328221	-0.522732
1	-0.313039	0.185540	3.084591	6	3.650799	-0.795825	-0.160410
1	-0.670332	0.307738	-1.315763	1	2.087371	2.188270	0.306278
1	-2.108810	2.803853	-0.269544	1	4.323722	3.016358	-0.339236
1	-3.642767	1.586424	0.671806	1	6.147836	1.406716	-0.871733
1	-5.742582	0.324809	0.886899	1	5.703721	-1.038024	-0.751026
1	-5.910579	-1.997657	0.009635	1	3.473996	-1.866399	-0.117911
1	-3.933998	-3.040036	-1.091234	1	1.864053	-2.356102	1.294189
1	-1.829462	-1.776971	-1.309632	6	0.967289	-0.951788	-2.171141
1	-0.320391	-0.947125	0.720204	1	1.960845	-0.510137	-2.269561
1	0.934614	2.446818	1.601236	1	1.102408	-2.009055	-1.920505
1	2.437399	2.302794	0.731560	1	0.485823	-0.897093	-3.155029
1	3.348351	0.725734	2.472469	6	-1.983693	-2.600622	-2.269674
1	2.838548	2.257884	3.187818	1	-1.260074	-2.414744	-3.067794
1	1.824324	0.821429	3.373291	1	-2.184466	-3.676503	-2.241520
1	2.526789	-1.640123	1.548280	1	-2.916008	-2.093440	-2.542956
<i>s-re(II)</i>							
Et = -1110.6182125 (-1110.9165707)							
(-1110.945402)							
NImag = 1(-334.73 cm ⁻¹)							

6	-3.068961	-0.643094	-0.478846
7	-1.861265	0.076908	0.014582
6	-1.491626	1.198052	-0.889004
6	-2.716175	1.325247	-1.824118
6	-3.250596	-0.108578	-1.902335
6	-1.103079	-0.366046	1.045447
6	-1.780825	-1.208930	2.101832
6	-2.529432	-0.333770	3.129354
6	-1.228662	2.522523	-0.162793
8	-0.466752	3.349412	-0.597579
6	0.259134	0.060066	1.165627
6	0.942515	0.011341	2.523986
8	-1.955413	2.748485	0.956298
6	1.314626	-1.089350	0.017740
6	0.666246	-1.406338	-1.209944
7	-0.407739	-2.247175	-1.202584
8	-0.790585	-2.706355	-0.072067
6	2.633576	-0.387540	-0.104135
6	2.775826	0.807378	-0.827644
6	4.021798	1.419630	-0.955416
6	5.149754	0.849985	-0.360487
6	5.020809	-0.332917	0.368419
6	3.772246	-0.941754	0.499834
8	-1.026088	-2.518052	-2.265805
1	-2.641154	-0.714205	-2.579623
1	-4.292574	-0.155411	-2.231113
1	-3.461060	1.993847	-1.373869
1	-2.429193	1.746794	-2.790064
1	-0.596996	0.962034	-1.463326
1	-2.859338	-1.715652	-0.467934
1	-3.932891	-0.426447	0.162541
1	1.994232	0.288752	2.415977
1	0.490475	0.714428	3.233601
1	0.910575	-0.987058	2.972791
1	0.921610	-0.984456	-2.171309
1	1.325480	-1.921991	0.719585
1	3.678695	-1.866484	1.063996
1	5.891504	-0.783485	0.837342
1	6.120156	1.328613	-0.459519
1	4.109525	2.346211	-1.516047
1	1.906438	1.275773	-1.283290
1	-2.456826	1.942580	1.175840
1	0.483174	0.987056	0.644201
1	-1.027919	-1.816128	2.606599
1	-2.474696	-1.912681	1.642016
1	-3.355621	0.217011	2.661056
1	-2.964662	-0.963523	3.912325
1	-1.868242	0.392944	3.612360

Table S36. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Cyclohexanone (**3**) to Nitrostyrene Using Unassisted Pathway. The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1148.7364504 (-1149.039627) (-1149.076129) NImag=1(-298.91 cm ⁻¹)				<i>a-si</i> (II) Et = -1148.7324905 (-1149.03559473) (-1149.07286969) NImag=1(-220.8 cm ⁻¹)			
6	3.602881	-1.020362	-0.717802	6	3.621967	-0.910395	-0.804358
6	2.434959	-0.825582	0.038124	6	2.421278	-0.786387	-0.086276
6	2.576005	-0.364639	1.359903	6	2.503013	-0.483506	1.284044
6	3.834225	-0.089816	1.892861	6	3.737631	-0.303172	1.906176
6	4.983713	-0.273388	1.120309	6	4.921639	-0.423632	1.174370
6	4.863332	-0.746354	-0.186643	6	4.859371	-0.731463	-0.184429
6	1.109825	-1.158269	-0.572420	6	1.118521	-1.032897	-0.791815
6	0.125083	-1.726508	0.306007	6	0.144554	-1.781599	-0.025788
7	-0.962073	-2.350073	-0.190554	7	-0.949065	-2.285978	-0.619086
8	-1.029513	-2.682317	-1.409389	8	-1.032541	-2.373990	-1.880696
8	-1.977648	-2.572088	0.587829	8	-1.969286	-2.635690	0.110666
6	0.399288	0.361375	-1.538295	6	0.371570	0.518848	-1.499233
6	1.516571	1.241722	-2.106658	6	1.438385	1.484610	-2.048268
6	-0.541935	0.998367	-0.652089	6	-0.521470	1.059065	-0.493491
6	-0.036969	2.046385	0.303948	6	0.006122	1.986981	0.570882
7	-1.803727	0.583481	-0.594036	7	-1.784282	0.650600	-0.436682
6	-2.776832	0.934695	0.489304	6	-2.689801	0.860687	0.734600
6	-4.048523	0.167473	0.086622	6	-4.032154	0.266955	0.269190
6	-3.990168	0.172909	-1.443038	6	-4.013399	0.492903	-1.244687
6	-2.510972	-0.100416	-1.720578	6	-2.568059	0.157749	-1.614184
6	-2.305416	0.641312	1.936128	6	-2.183151	0.261007	2.071746
8	-2.060120	-0.609464	2.291452	8	-1.985362	-1.043701	2.154370
8	-2.221547	1.565482	2.720761	8	-2.029760	1.003707	3.021577
1	-4.291211	1.149708	-1.841036	1	-4.249063	1.536845	-1.485351
1	-4.627946	-0.591953	-1.893863	1	-4.719222	-0.149466	-1.777891
1	-3.994890	-0.862298	0.452110	1	-4.057828	-0.805775	0.483194
1	-4.941407	0.641611	0.501931	1	-4.871207	0.743936	0.781836
1	-2.959774	2.012725	0.457283	1	-2.785488	1.935241	0.915867
1	-2.158804	0.327587	-2.662112	1	-2.214531	0.677429	-2.507205
1	-2.287780	-1.173570	-1.720106	1	-2.420001	-0.917224	-1.757570
1	1.221619	-1.736614	-1.487752	1	1.287166	-1.478049	-1.772571
1	0.089468	-1.528663	1.365831	1	0.124941	-1.791017	1.052758
1	1.700154	-0.228264	1.987272	1	1.598469	-0.397771	1.878744
1	3.916540	0.262733	2.917376	1	3.773973	-0.074920	2.967943
1	5.963663	-0.060244	1.538187	1	5.882603	-0.286091	1.662271
1	5.750325	-0.911012	-0.792420	1	5.772534	-0.840509	-0.763262
1	3.521266	-1.410256	-1.729492	1	3.584044	-1.171280	-1.859401
1	-0.083151	-0.231421	-2.312360	1	-0.176667	0.012860	-2.290738
1	0.536783	1.552971	1.101264	1	0.128571	1.445090	1.517619
1	-2.099522	-1.340327	1.571750	1	-2.053333	-1.618199	1.299981
1	-0.854673	2.570594	0.800969	1	-0.765624	2.738310	0.780371
6	0.882847	3.041252	-0.436320	6	1.326729	2.679888	0.167334
6	2.034092	2.316095	-1.138708	1	1.381993	3.646904	0.679042
1	2.346148	0.611932	-2.445999	1	2.180120	2.089249	0.514635
1	1.124112	1.731960	-3.010453	6	1.417422	2.854888	-1.350691
1	1.267100	3.768874	0.287379	1	1.274945	1.613940	-3.124918
1	0.287589	3.607356	-1.166362	1	2.437008	1.048560	-1.940145
1	2.651544	3.034206	-1.691717	1	0.557731	3.442580	-1.705032
1	2.682029	1.858097	-0.384701	1	2.316865	3.421199	-1.617889
<i>a-re</i> Et = -1148.7372111 (-1149.040902) (-1149.073897)				<i>a-re</i> (II) Et = -1148.7346942 (-1149.03814967) (-1149.07215754)			

NImag= 1(-354.65 cm ⁻¹)				NImag= 1(-354.65 cm ⁻¹)			
6	-3.426132	-1.262729	0.679139	6	-3.400196	-1.212753	0.721783
6	-2.952487	-0.399780	-0.324316	6	-2.972038	-0.385426	-0.330459
6	-3.877730	0.426290	-0.983159	6	-3.933773	0.379260	-1.009351
6	-5.234868	0.380509	-0.663602	6	-5.282830	0.310144	-0.659355
6	-5.690619	-0.484551	0.331864	6	-5.693056	-0.517863	0.385594
6	-4.780025	-1.304498	1.003732	6	-4.745595	-1.278603	1.076146
6	-1.521903	-0.359492	-0.724105	6	-1.546365	-0.324627	-0.756655
6	-0.636605	0.682857	0.865107	6	-0.661522	0.741432	0.760583
6	-1.463122	1.950557	1.071067	6	-1.474298	2.037140	0.912912
6	-0.854871	-1.593554	-0.884571	6	-0.877964	-1.559974	-0.923042
7	0.378727	-1.641210	-1.455619	7	0.356722	-1.603365	-1.488128
8	1.075787	-2.682803	-1.384480	8	1.052093	-2.647259	-1.430158
6	0.754818	0.837026	0.582974	6	0.740640	0.844452	0.498949
6	1.242880	2.093577	-0.117180	6	1.315000	2.081866	-0.163597
7	1.661590	-0.108684	0.880803	7	1.616871	-0.115095	0.843881
6	3.140565	0.039528	0.701449	6	3.100358	0.037620	0.733804
6	3.684316	-1.342161	1.108200	6	3.644629	-1.291208	1.297211
6	2.729386	-1.770991	2.222900	6	2.598179	-1.685436	2.339750
6	1.370594	-1.343681	1.665017	6	1.291623	-1.340853	1.624525
6	3.772661	0.474268	-0.643424	6	3.813446	0.343393	-0.607396
8	3.297590	0.043967	-1.797263	8	3.336082	-0.082056	-1.763867
8	4.787708	1.138060	-0.567561	8	4.888604	0.900142	-0.516347
8	0.818812	-0.579369	-2.037083	8	0.806516	-0.529881	-2.043842
1	2.956675	-1.236897	3.153377	1	2.712780	-1.087172	3.251787
1	2.759847	-2.844610	2.428147	1	2.641632	-2.742895	2.615239
1	3.606202	-2.029453	0.257838	1	3.678799	-2.039191	0.496569
1	4.731713	-1.274987	1.410144	1	4.653925	-1.159119	1.691680
1	3.489880	0.791400	1.416985	1	3.400489	0.860561	1.391120
1	0.631283	-1.129258	2.440802	1	0.460502	-1.146271	2.305761
1	0.984528	-2.116990	0.997578	1	1.019237	-2.145925	0.936788
1	-1.176136	-2.523792	-0.439641	1	-1.201434	-2.491768	-0.483037
1	-1.278249	0.391164	-1.468668	1	-1.332108	0.418545	-1.518746
1	-3.529376	1.097624	-1.764091	1	-3.621577	1.017630	-1.832083
1	-5.934662	1.021225	-1.193084	1	-6.011524	0.903723	-1.204562
1	-6.746549	-0.519217	0.585109	1	-6.742309	-0.570520	0.662452
1	-5.126438	-1.978536	1.782486	1	-5.056519	-1.924348	1.892973
1	-2.729443	-1.903948	1.212859	1	-2.673810	-1.807723	1.269810
1	2.377805	-0.376978	-1.799034	1	2.383078	-0.421134	-1.784998
1	-0.877488	-0.096734	1.582326	1	-0.920658	-0.007629	1.501362
1	1.188889	1.899865	-1.196322	1	1.802379	1.794435	-1.099052
1	2.295880	2.278005	0.107295	1	2.107775	2.475809	0.488115
6	0.428794	3.351147	0.226214	6	0.286982	3.188618	-0.424218
6	-1.073032	3.088450	0.124966	6	-0.648524	3.321838	0.775717
1	-1.330568	2.293456	2.109504	1	-1.981956	2.014680	1.884540
1	-2.526306	1.713427	0.970323	1	-2.278034	2.067541	0.167081
1	-1.333429	2.827524	-0.910338	1	-0.054382	3.497892	1.684001
1	-1.640653	3.992776	0.374521	1	-1.318500	4.182128	0.663084
1	0.738261	4.161066	-0.443945	1	0.819989	4.123274	-0.629924
1	0.671207	3.677667	1.247003	1	-0.297444	2.955013	-1.323924
<i>s-si</i> (II) Et = -1148.7367595 (-1149.0396051) (-1149.069070)				<i>s-si</i> Et = -1148.73494082 (-1149.03780209) (-1149.07286969)			
NImag=1(-331.21 cm ⁻¹)				NImag=1(-332.72 cm ⁻¹)			
6	-0.315448	0.877257	-0.798235	6	-0.312859	0.877515	-0.782127
6	0.974965	1.269382	-0.336779	6	0.996224	1.243395	-0.335908
7	1.985142	0.381220	-0.302800	7	1.993506	0.346579	-0.326904
6	2.127331	-0.763921	-1.255179	6	2.085382	-0.839148	-1.234944
6	3.646549	-1.094478	-1.232461	6	3.592877	-1.212435	-1.224991
6	4.314672	0.102837	-0.539193	6	4.310861	0.007609	-0.632691
6	3.244866	0.554811	0.450177	6	3.287582	0.556157	0.358701
6	1.290551	-2.045725	-1.008672	6	1.223532	-2.090285	-0.924845

8 1.534733 -2.783024 0.073006	8 1.476185 -2.792491 0.175843
8 0.521666 -2.417397 -1.874133	8 0.432048 -2.473935 -1.765117
1 4.528614 0.903662 -1.257230	1 4.521390 0.754242 -1.407792
1 5.251135 -0.169652 -0.044504	1 5.256142 -0.255628 -0.150000
1 3.810149 -2.004447 -0.648573	1 3.744053 -2.085015 -0.583736
1 4.019537 -1.275889 -2.243739	1 3.934591 -1.474193 -2.229731
1 1.806033 -0.408368 -2.236540	1 1.756652 -0.512596 -2.224376
1 3.362175 1.576644 0.801031	1 3.437619 1.605420 0.600943
1 3.186897 -0.094723 1.335730	1 3.253143 -0.013352 1.298571
1 1.762569 -2.271713 0.921038	1 1.716566 -2.250955 1.007338
6 -1.168705 0.131965 0.873563	6 -1.176310 0.181597 0.856038
6 -0.325972 -0.877817 1.409619	6 -0.350895 -0.826868 1.435612
6 -1.248965 1.942904 -1.363999	6 -1.219100 1.963788 -1.380587
1 -1.176713 1.057817 1.443091	1 -1.192540 1.115158 1.413187
1 -0.449327 -1.927116 1.195157	1 -0.487628 -1.880679 1.254592
6 -2.514152 -0.301349 0.396788	6 -2.525040 -0.260004 0.386951
6 -2.686179 -1.430119 -0.423743	6 -2.696766 -1.393962 -0.425910
6 -3.962440 -1.826006 -0.819258	6 -3.973624 -1.796855 -0.812699
6 -5.087002 -1.105934 -0.407107	6 -5.099056 -1.078952 -0.399148
6 -4.927179 0.020362 0.400769	6 -4.939851 0.050944 0.403292
6 -3.650054 0.421986 0.793211	6 -3.661971 0.459215 0.787364
1 -1.821858 -1.992981 -0.767309	1 -1.832869 -1.958329 -0.767951
1 -4.078050 -2.700073 -1.454266	1 -4.088921 -2.675183 -1.441929
1 -6.080071 -1.419140 -0.717672	1 -6.092378 -1.397674 -0.703357
1 -5.794741 0.587889 0.726670	1 -5.807940 0.616154 0.731810
1 -3.530674 1.296308 1.428757	1 -3.543140 1.334928 1.421162
7 0.791144 -0.554837 2.114770	7 0.772583 -0.487002 2.114685
8 0.998041 0.622634 2.506226	8 0.986012 0.708314 2.451317
8 1.670136 -1.476212 2.348375	8 1.656067 -1.399282 2.376369
1 -0.344907 -0.052349 -1.361987	1 -0.353131 -0.057236 -1.335040
6 1.179476 2.681360 0.189030	6 1.275002 2.653755 0.159233
1 0.926264 2.697085 1.254505	1 1.629869 2.625616 1.190367
1 2.233471 2.962350 0.114375	1 2.093727 3.057285 -0.457084
6 0.333237 3.719011 -0.569976	6 0.062495 3.586517 0.040331
6 -1.132861 3.293544 -0.651618	6 -0.631584 3.380722 -1.305753
1 -1.009504 2.077497 -2.429803	1 0.401739 4.621436 0.162522
1 -2.279474 1.576248 -1.334185	1 -0.642552 3.390354 0.858204
1 0.731643 3.846243 -1.586384	1 0.098688 3.534083 -2.113451
1 0.436197 4.688550 -0.068577	1 -1.426443 4.120070 -1.457098
1 -1.552044 3.225338 0.361692	1 -2.190394 1.951475 -0.872999
1 -1.724073 4.047711 -1.184476	1 -1.432766 1.700499 -2.423422
<i>s-re</i> Et = -1148.7308483 (-1149.03531646) (-1149.06896882) NImag = 1(-332.67 cm ⁻¹)	<i>s-re</i> (II) Et = -1148.7265821 (-1149.0307969) (-1149.064242) NImag = 1(-345.19 cm ⁻¹)
6 0.150714 -0.161575 -1.055738	6 0.170340 -0.262813 -1.033210
6 -1.120164 -0.765172 -0.779536	6 -1.157599 -0.757484 -0.757896
6 -1.127193 -2.264130 -0.653833	6 -1.400207 -2.254467 -0.700300
7 -2.244142 -0.055671 -0.600721	7 -2.211871 0.044531 -0.588812
6 -2.335624 1.413694 -0.767178	6 -2.192691 1.519173 -0.713863
6 -3.824308 1.744615 -0.473109	6 -3.678537 1.942829 -0.526548
6 -4.559542 0.409744 -0.633726	6 -4.485949 0.651387 -0.710235
6 -3.535929 -0.616436 -0.149158	6 -3.548718 -0.426754 -0.168854
6 -1.465791 2.297029 0.148122	6 -1.351172 2.313954 0.304155
8 -1.317741 1.943620 1.426336	8 -1.282314 1.875393 1.560221
8 -1.044703 3.350048 -0.280545	8 -0.889753 3.382390 -0.037686
1 -4.803126 0.224420 -1.686306	1 -4.691031 0.467023 -1.771082
1 -5.488816 0.367236 -0.059118	1 -5.441557 0.672548 -0.179440
1 -3.920735 2.101693 0.557543	1 -3.821575 2.330041 0.487420
1 -4.188893 2.533161 -1.134946	1 -3.950395 2.735815 -1.226218
1 -2.060365 1.673373 -1.793591	1 -1.819770 1.787347 -1.706128
1 -3.707565 -1.601031 -0.584056	1 -3.758887 -1.414634 -0.576906

1	-3.510266	-0.723953	0.942980	1	-3.562880	-0.502340	0.926104
1	-1.385622	0.958386	1.620273	1	-1.331706	0.872035	1.685986
1	-0.582764	-2.494572	0.275984	1	-1.738518	-2.516659	0.306845
6	1.100449	-0.036911	0.710822	6	1.107513	-0.077301	0.654461
1	0.507718	0.814557	1.013564	1	0.518186	0.766597	0.983468
6	0.963700	-1.148038	1.593438	6	1.013795	-1.186989	1.558398
1	0.115428	0.906640	-1.264810	1	0.184905	0.796062	-1.286191
7	-0.176604	-1.346328	2.324456	7	-0.135504	-1.449921	2.228675
8	-0.224426	-2.241427	3.189745	8	-0.212153	-2.393868	3.041061
8	-1.231842	-0.639034	2.070430	8	-1.200779	-0.737341	1.972572
6	2.476112	0.391097	0.318410	6	2.477880	0.382185	0.265344
6	2.696726	1.750662	0.037596	6	2.672737	1.745394	-0.016019
6	3.965268	2.214345	-0.307266	6	3.933235	2.233429	-0.356138
6	5.039868	1.326231	-0.383486	6	5.025505	1.366438	-0.428342
6	4.834364	-0.028271	-0.113262	6	4.846458	0.008995	-0.156861
6	3.565348	-0.491898	0.231539	6	3.584984	-0.478788	0.184304
1	1.865589	2.449854	0.100723	1	1.829778	2.430390	0.047629
1	4.114118	3.271284	-0.510661	1	4.062449	3.293206	-0.558261
1	6.029978	1.686172	-0.649571	1	6.009297	1.745968	-0.690783
1	5.664799	-0.727168	-0.167746	1	5.690834	-0.673360	-0.206138
1	3.427106	-1.548705	0.439923	1	3.467512	-1.537118	0.398163
1	1.748753	-1.850948	1.826973	1	1.814291	-1.876651	1.777326
6	1.042055	-0.891051	-2.068596	6	1.015119	-1.086669	-2.028929
1	-2.129330	-2.675342	-0.538918	1	-2.229897	-2.483804	-1.384513
6	-0.381563	-2.952459	-1.814285	6	-0.184989	-3.091964	-1.119116
6	1.046559	-2.414813	-1.915580	6	0.446242	-2.474592	-2.365640
1	0.680350	-0.634849	-3.076438	1	2.028177	-1.204816	-1.632660
1	2.060220	-0.496831	-2.005163	1	1.126914	-0.499422	-2.948484
1	1.599950	-2.697087	-1.011037	1	1.243709	-3.112415	-2.763412
1	1.572575	-2.870204	-2.763301	1	-0.315457	-2.397329	-3.155206
1	-0.381300	-4.034665	-1.639564	1	0.545986	-3.127189	-0.304277
1	-0.919187	-2.783068	-2.757649	1	-0.512431	-4.121930	-1.299894

Table S37. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Propanal (**1**) to Nitrostyrene Using Solvent Assisted Pathway (C₂ model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**/B3LYP/6-31G* and PCM-B3LYP/6-311G**/B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1263.4722614 (-1263.83418605) (-1263.86515688) NImag=1(-282.56 cm ⁻¹)				<i>a-re</i> Et = -1263.4684617 (-1263.83071557) (-1263.86233948) NImag= 1(-251.79 cm ⁻¹)			
6	-4.210747	-1.450691	-0.231650	6	4.051394	1.239048	-0.207678
6	-3.032986	-0.693361	-0.332314	6	2.904761	0.454523	-0.410512
6	-3.098332	0.565023	-0.954332	6	3.031988	-0.731657	-1.152748
6	-4.306478	1.043292	-1.460277	6	4.265929	-1.121868	-1.673033
6	-5.470475	0.277826	-1.356606	6	5.397895	-0.333015	-1.461494
6	-5.418338	-0.973330	-0.741406	6	5.284929	0.850132	-0.728778
6	-1.753708	-1.255156	0.201585	6	1.556039	0.835054	0.119625
6	-0.629734	-1.213620	-0.681578	6	1.347478	0.010575	1.817286
7	0.485886	-1.930488	-0.411805	6	2.698734	-0.109027	2.503305
8	0.601294	-2.583081	0.666634	6	1.238817	2.225437	0.296251
8	1.452943	-1.904733	-1.259118	7	-0.057700	2.621763	0.261819
6	-1.407719	-0.475792	1.933839	8	-0.381403	3.826829	0.361394
6	-2.725624	-0.460908	2.689223	6	0.684814	-1.201965	1.464568
6	-0.808070	0.775599	1.653041	7	-0.621351	-1.394822	1.469702
7	0.488475	0.977573	1.482484	6	-1.271434	-2.531951	0.749008
6	1.017177	2.262685	0.932383	6	-2.776156	-2.320861	0.995700
6	2.534952	2.194095	1.179919	6	-2.838046	-1.452823	2.266534
6	2.696020	1.144188	2.296962	6	-1.617391	-0.535901	2.140272
6	1.582082	0.131851	2.015939	6	-0.738505	-2.558362	-0.704581
6	0.480068	2.431737	-0.509895	8	-1.255161	-1.748007	-1.615086
8	1.139760	1.912041	-1.529858	8	0.214170	-3.272933	-0.955887
8	-0.588564	2.996727	-0.658397	8	-0.971617	1.707890	0.112911
1	2.553302	1.604040	3.281878	1	-2.753172	-2.072463	3.166996
1	3.677723	0.664923	2.279311	1	-3.768808	-0.883687	2.335526
1	3.076036	1.883628	0.283838	1	-3.244573	-1.788657	0.164562
1	2.920504	3.176290	1.466718	1	-3.286726	-3.280682	1.112368
1	0.561491	3.080603	1.497870	1	-0.920259	-3.465322	1.198504
1	1.226109	-0.390128	2.906565	1	-1.218639	-0.208466	3.104618
1	1.894198	-0.620010	1.287828	1	-1.791555	0.354837	1.521206
1	-3.393167	0.327841	2.327815	1	3.221617	0.852290	2.488582
1	-3.250003	-1.415838	2.578169	1	2.573674	-0.404600	3.552045
1	-2.558731	-0.301232	3.761552	1	3.341552	-0.847714	2.015417
1	-1.880549	-2.232867	0.668290	1	1.942573	3.016098	0.508096
1	-0.577439	-0.604297	-1.571272	1	0.757487	0.343456	-0.429316
1	-2.209676	1.183908	-1.045957	1	2.157456	-1.352361	-1.336439
1	-4.335022	2.019566	-1.936425	1	4.338054	-2.039570	-2.250320
1	-6.409949	0.654397	-1.752212	1	6.359338	-0.634106	-1.868704
1	-6.315894	-1.580524	-0.658422	1	6.158411	1.475741	-0.565055
1	-4.175273	-2.431584	0.236550	1	3.982908	2.167242	0.351684
1	-0.710212	-1.245903	2.259731	1	-2.039478	-1.164047	-1.364028
1	1.994402	1.406654	-1.344270	1	0.696018	0.736079	2.299055
8	3.448431	0.692494	-1.593449	8	-3.449952	-0.321448	-1.463657
1	3.642065	-0.108854	-1.037356	1	-3.428231	0.657103	-1.239593
6	3.454068	0.283343	-2.965334	6	-3.972789	-0.449777	-2.785789
1	4.456662	-0.045931	-3.267089	1	-5.038569	-0.188955	-2.812149
1	2.732258	-0.522634	-3.137827	1	-3.432973	0.188076	-3.496225
1	3.174909	1.152572	-3.566026	1	-3.857191	-1.493428	-3.090248
8	3.742899	-1.505392	-0.054174	8	-3.266285	2.289122	-1.031698
1	2.898081	-1.901962	-0.413646	1	-2.346718	2.273172	-0.644283
6	4.775297	-2.481488	-0.066225	6	-4.092151	3.013573	-0.129885
1	5.692634	-2.003632	0.290797	1	-4.244812	2.479761	0.821096
1	4.535586	-3.320158	0.600724	1	-3.654579	3.994201	0.091360

1	4.958823	-2.878723	-1.074721	1	-5.066745	3.158892	-0.605758
1	-1.438223	1.624049	1.390112	1	1.261439	-1.999930	0.998236
<i>s-si</i> Et = -1263.4769248 (-1263.8380606) (-1263.8643444) NImag = 1(-340.5 cm ⁻¹)				<i>s-si(II)</i> Et = -1263.4754374 (-1263.83567309) (-1263.86246717) NImag=1(-346.23 cm ⁻¹)			
6	1.459954	1.132012	-1.329401	6	1.290293	0.899230	-1.416191
6	0.111821	1.109141	-1.739326	6	-0.076768	0.836107	-1.754580
7	-0.957449	1.412066	-1.000681	7	-1.108366	1.331196	-1.068771
6	-0.936192	2.230175	0.240426	6	-0.990487	2.300828	0.048305
6	-2.406823	2.679616	0.418274	6	-2.429658	2.837337	0.223790
6	-3.028040	2.544104	-0.982722	6	-3.080990	2.630229	-1.153064
6	-2.325250	1.311827	-1.556252	6	-2.485366	1.299603	-1.619340
6	-0.325896	1.520002	1.471846	6	-0.369881	1.727723	1.343057
8	-0.994678	0.534965	2.052252	8	-1.021057	0.777208	1.995117
8	0.753686	1.887727	1.896844	8	0.683687	2.179860	1.750666
1	-2.803591	3.426059	-1.594481	1	-2.798038	3.435544	-1.841412
1	-4.113868	2.421756	-0.946282	1	-4.172261	2.594966	-1.098456
1	-2.930582	2.022029	1.116795	1	-2.964237	2.247036	0.972173
1	-2.454128	3.697303	0.815009	1	-2.420582	3.880556	0.550070
1	-0.276460	3.085017	0.062361	1	-0.305895	3.096306	-0.264197
1	-2.272260	1.303627	-2.647959	1	-2.436386	1.199208	-2.706992
1	-2.792985	0.373585	-1.238981	1	-3.034253	0.440728	-1.226007
1	-1.888020	0.283190	1.663552	1	-1.861344	0.423018	1.561447
6	1.838160	-0.776097	-0.710170	6	1.773492	-0.876829	-0.530963
6	0.781292	-1.309139	0.065293	6	0.831852	-1.312838	0.428919
6	2.488217	1.361863	-2.423530	6	2.247056	0.949232	-2.598428
1	2.551008	2.423260	-2.694929	1	2.261521	1.945593	-3.057869
1	3.485050	1.048501	-2.100341	1	3.269770	0.716700	-2.289568
1	2.233542	0.803215	-3.332764	1	1.955285	0.232410	-3.376224
1	1.860578	-1.150528	-1.731174	1	1.721720	-1.408293	-1.478403
1	0.780924	-1.392135	1.140798	1	0.965495	-1.236467	1.496809
6	3.176734	-0.662207	-0.065549	6	3.155607	-0.621049	-0.032504
6	3.348099	-0.100476	1.211822	6	3.397704	0.172360	1.102572
6	4.612433	-0.055890	1.796423	6	4.698101	0.354057	1.569726
6	5.725013	-0.566929	1.122627	6	5.776899	-0.248283	0.916814
6	5.567452	-1.119517	-0.148778	6	5.548214	-1.031762	-0.214874
6	4.304159	-1.160599	-0.739203	6	4.248051	-1.210938	-0.688501
1	2.497390	0.323078	1.738402	1	2.570582	0.663709	1.608448
1	4.728903	0.384683	2.782953	1	4.869040	0.972902	2.446452
1	6.708191	-0.529685	1.584191	1	6.788853	-0.103641	1.285608
1	6.425639	-1.519144	-0.682572	1	6.379840	-1.504452	-0.730711
1	4.183940	-1.601049	-1.726080	1	4.073324	-1.829526	-1.565602
7	-0.369101	-1.696317	-0.546425	7	-0.363159	-1.835561	0.046454
8	-0.515215	-1.531628	-1.793347	8	-0.669007	-1.835835	-1.206955
8	-1.303837	-2.212856	0.161679	8	-1.164727	-2.292792	0.901678
1	1.665101	1.634213	-0.386001	1	1.546667	1.556616	-0.587841
8	-3.464744	-0.251279	1.624782	8	-3.345632	-0.218011	1.275536
8	-3.731901	-1.631251	-0.671063	8	-3.409097	-1.829781	-0.940611
1	-3.687259	-0.754424	0.797395	1	-3.338384	-0.877710	0.530533
1	-2.798065	-1.973103	-0.574670	1	-2.434406	-1.949940	-1.080524
6	-3.539620	-1.171580	2.717336	6	-3.694636	-0.908413	2.479018
1	-3.219831	-0.639530	3.616590	1	-3.653504	-0.182940	3.295808
1	-4.569793	-1.521994	2.862013	1	-4.715283	-1.307297	2.415294
1	-2.877692	-2.030948	2.557832	1	-2.991778	-1.722592	2.684723
6	-4.594855	-2.693448	-1.050655	6	-3.973353	-3.122995	-0.743470
1	-5.613996	-2.297802	-1.094585	1	-5.013478	-2.989556	-0.430815
1	-4.330188	-3.085380	-2.041801	1	-3.964792	-3.705718	-1.675155
1	-4.572368	-3.522978	-0.329693	1	-3.430247	-3.679011	0.030222
1	-0.119765	0.776371	-2.745768	1	-0.356675	0.335620	-2.676773
<i>s-re</i> Et = -1263.47387 (-1263.83508767)							

(-1263.86306312)			
NImag=1(-355.14 cm ⁻¹)			
6	1.147455	-0.439295	1.568231
6	-0.245490	-0.339599	1.799938
7	-1.219060	-1.139821	1.365628
6	-1.030371	-2.396734	0.616146
6	-2.465913	-2.959730	0.478797
6	-3.229514	-2.336894	1.659105
6	-2.631446	-0.931178	1.753633
6	-0.311599	-2.240588	-0.738928
8	-0.778651	-1.350763	-1.610227
8	0.656692	-2.928995	-0.991961
1	-3.036600	-2.895397	2.582638
1	-4.309784	-2.314341	1.493256
1	-2.909756	-2.621094	-0.461307
1	-2.462934	-4.052445	0.485621
1	-0.393425	-3.067864	1.202544
1	-2.674473	-0.504307	2.759625
1	-3.113506	-0.234299	1.062144
1	-1.617542	-0.859623	-1.350197
6	1.582577	0.763168	-0.027117
1	0.845744	0.270487	-0.652182
6	1.280364	2.121111	0.253601
1	1.483831	-1.370876	1.115403
7	-0.016282	2.521219	0.332310
8	-0.339658	3.717155	0.506028
8	-0.917650	1.597566	0.248334
6	2.988159	0.393151	-0.351702
6	3.227367	-0.722214	-1.174084
6	4.527253	-1.084369	-1.523438
6	5.615201	-0.344980	-1.055476
6	5.393240	0.759598	-0.230727
6	4.093971	1.123534	0.119647
1	2.390529	-1.313605	-1.535898
1	4.688027	-1.947290	-2.163952
1	6.628272	-0.627579	-1.329123
1	6.232784	1.341509	0.140359
1	3.942154	1.985583	0.762338
1	1.999256	2.903428	0.442058
6	2.030255	0.079755	2.691366
1	3.073282	0.142925	2.368287
1	1.711998	1.079215	3.010878
1	1.997109	-0.577853	3.569462
1	-3.306819	0.677534	-1.060778
8	-3.156860	-0.223510	-1.463275
8	-3.465088	2.123497	-0.182845
1	-2.505725	2.164365	0.077134
6	-3.569377	-0.191901	-2.827250
1	-3.299873	-1.151082	-3.277076
1	-4.656080	-0.057092	-2.908252
1	-3.068060	0.607985	-3.388239
6	-3.829313	3.367516	-0.770108
1	-4.895037	3.321637	-1.013684
1	-3.661632	4.195774	-0.070872
1	-3.264875	3.574285	-1.690603
1	-0.596660	0.458537	2.446627

Table S38. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent Assisted Pathway (C_2 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**/B3LYP/6-31G* and PCM-B3LYP/6-311G**/B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1342.09916821 (-1342.48096357) (-1342.50602061) NImag=1(-286.6 cm ⁻¹)				<i>a-re</i> Et = -1342.0970055 (-1342.47960314) (-1342.50740453) NImag= 1(-273.0 cm ⁻¹)			
6	3.928135	-1.908981	-0.258693	6	-3.537618	1.705442	0.309574
6	2.760106	-1.284405	0.209029	6	-2.331825	1.064358	0.642333
6	2.840034	-0.524579	1.389807	6	-2.347878	0.110875	1.674087
6	4.047490	-0.399684	2.074906	6	-3.530198	-0.195595	2.348017
6	5.200407	-1.028353	1.597808	6	-4.721922	0.443256	2.001775
6	5.136496	-1.784914	0.427380	6	-4.720165	1.396259	0.980999
6	1.482226	-1.472985	-0.538751	6	-1.038422	1.380107	-0.038953
6	0.295301	-1.666965	0.225214	6	-0.925324	0.421127	-1.716514
7	-0.834971	-2.115920	-0.375606	6	-2.113483	0.817611	-2.571655
8	-0.877825	-2.326545	-1.620834	6	-0.780525	2.753618	-0.339277
8	-1.885940	-2.276487	0.345105	7	0.490980	3.169561	-0.596142
6	1.253151	-0.034407	-1.853816	8	0.764007	4.377812	-0.736387
6	2.485750	-0.053780	-2.740445	6	-0.722633	-0.945825	-1.346541
6	0.918920	1.130961	-1.103934	6	-1.894332	-1.877717	-1.143092
6	1.992804	2.083362	-0.626248	6	-2.163467	-2.724233	-2.407841
6	2.114622	3.308553	-1.558828	7	0.520457	-1.405751	-1.119306
7	-0.359341	1.358673	-0.754360	6	0.841151	-2.688538	-0.435004
6	-0.788708	2.349667	0.278765	6	2.376662	-2.817581	-0.566619
6	-2.275988	2.638410	-0.033616	6	2.719739	-1.956379	-1.789142
6	-2.498682	2.071740	-1.446881	6	1.750110	-0.779349	-1.673386
6	-1.545684	0.877391	-1.507648	6	0.350216	-2.741410	1.027831
6	-0.474264	1.801380	1.693538	8	0.712742	-1.754124	1.850450
8	-1.240633	0.848115	2.205474	8	-0.362905	-3.647575	1.401452
8	0.501887	2.211726	2.293886	8	1.413288	2.263541	-0.690694
1	-2.228456	2.810566	-2.210535	1	2.534675	-2.507807	-2.718651
1	-3.532715	1.761346	-1.617356	1	3.762480	-1.627432	-1.791283
1	-2.936195	2.139343	0.679048	1	2.871000	-2.404086	0.316550
1	-2.477305	3.711296	0.028973	1	2.672039	-3.864664	-0.670280
1	-0.189418	3.254495	0.177959	1	0.337649	-3.513978	-0.944225
1	-1.252643	0.606556	-2.521554	1	1.518729	-0.321388	-2.636949
1	-1.989015	0.000498	-1.034517	1	2.112782	0.006863	-1.007711
1	3.398152	0.259382	-2.225455	1	-2.182606	1.910737	-2.596345
1	2.654530	-1.069093	-3.115210	1	-1.989068	0.477270	-3.607256
1	2.353663	0.592286	-3.617584	1	-3.066038	0.428899	-2.200781
1	1.570967	-2.181983	-1.361792	1	-1.523559	3.536077	-0.363398
1	0.187050	-1.428817	1.272015	1	-0.184078	0.893135	0.426664
1	1.962240	-0.017201	1.779649	1	-1.424218	-0.386067	1.959779
1	4.084784	0.192258	2.985282	1	-3.515784	-0.932910	3.146012
1	6.139544	-0.929783	2.135545	1	-5.643734	0.204890	2.525481
1	6.024598	-2.284218	0.049089	1	-5.641065	1.905207	0.708609
1	3.882704	-2.513175	-1.161293	1	-3.553581	2.454733	-0.476184
1	0.404883	-0.537280	-2.313780	1	1.461023	-1.158049	1.541713
1	2.946089	1.552917	-0.602752	1	-0.012452	0.925836	-2.019869
1	1.800427	2.409055	0.398147	1	-2.779380	-1.283371	-0.909100
1	1.183041	3.884502	-1.597847	1	-1.737975	-2.544159	-0.292408
1	2.904977	3.973478	-1.195493	1	-1.303930	-3.352459	-2.665738
1	2.365740	3.011737	-2.582393	1	-3.020042	-3.383028	-2.233285
1	-2.082400	0.595079	1.714643	1	-2.389862	-2.093031	-3.272679
8	-3.666965	0.123810	1.523399	8	2.924504	-0.361169	1.622517
1	-3.903089	-0.370946	0.694613	1	3.157128	0.530471	1.232992
6	-3.930799	-0.741331	2.631666	6	3.344979	-0.352836	2.987407
1	-5.004442	-0.956067	2.710822	1	4.439747	-0.323685	3.061711

1	-3.372322	-1.679980	2.541474	1	2.930449	0.504656	3.531853
1	-3.609380	-0.219758	3.536536	1	2.982989	-1.274014	3.450843
8	-4.070676	-1.300720	-0.742455	8	3.585809	2.071455	0.749567
1	-3.271836	-1.862995	-0.543204	1	2.792282	2.378882	0.230751
6	-5.163549	-2.130857	-1.108448	6	4.746506	2.290721	-0.039800
1	-6.033179	-1.486765	-1.270127	1	4.697057	1.774136	-1.009734
1	-4.954940	-2.674871	-2.039365	1	4.900864	3.361393	-0.225448
1	-5.411248	-2.861650	-0.325201	1	5.607449	1.907281	0.516066
<i>s-si</i> Et = -1342.1006377 (-1342.48193169) (-1342.50708115) NImag=1(-317.18 cm ⁻¹)				<i>s-si(II)</i> Et = -1342.1003425 (-1342.4807582) (-1342.506568) NImag=1(-327.6 cm ⁻¹)			
6	1.455868	1.431879	0.317824	6	1.271693	1.451752	0.009391
6	0.143002	1.858113	-0.019624	6	-0.082116	1.725326	-0.333043
7	-0.937253	1.384954	0.638676	7	-1.100778	1.439853	0.504537
6	-0.880256	0.784757	2.005781	6	-0.916006	1.113641	1.947656
6	-2.329195	0.889181	2.543554	6	-2.325335	1.271631	2.564785
6	-3.005473	1.938309	1.651609	6	-3.059253	2.207267	1.598804
6	-2.337287	1.729963	0.292213	6	-2.521780	1.783542	0.231455
6	-0.306859	-0.650071	2.105001	6	-0.292448	-0.265166	2.268064
8	-1.006470	-1.668238	1.626936	8	-0.956898	-1.361168	1.936789
8	0.764259	-0.828337	2.655844	8	0.766075	-0.317027	2.866730
1	-2.799824	2.951941	2.016671	1	-2.799746	3.254332	1.797439
1	-4.089939	1.808173	1.601105	1	-4.146395	2.107335	1.658988
1	-2.850663	-0.065508	2.442357	1	-2.835279	0.305872	2.593646
1	-2.326373	1.158570	3.603267	1	-2.261136	1.655826	3.586226
1	-0.193118	1.393124	2.600461	1	-0.217168	1.842467	2.369357
1	-2.373674	2.624089	-0.325768	1	-2.589645	2.582098	-0.504277
1	-2.789439	0.914167	-0.282680	1	-3.050225	0.913483	-0.166065
1	-1.899194	-1.470217	1.208328	1	-1.807380	-1.238435	1.407246
6	1.819494	-0.152806	-0.962948	6	1.771699	-0.353343	-0.882569
6	0.775131	-1.104833	-0.944287	6	0.866512	-1.403926	-0.613596
6	2.636648	2.361306	0.087678	6	2.359013	2.379476	-0.513938
1	2.576286	3.254337	0.722963	1	2.263572	3.388887	-0.093927
1	3.567085	1.847655	0.339483	1	3.341878	2.001378	-0.225761
1	2.722093	2.702530	-0.950031	1	2.351951	2.475417	-1.605655
1	1.820390	0.484849	-1.843778	1	1.687707	0.067198	-1.881834
1	0.788890	-2.025203	-0.382191	1	1.032504	-2.178015	0.119106
6	3.170144	-0.610780	-0.533617	6	3.170542	-0.560754	-0.410270
6	3.371514	-1.354201	0.642505	6	3.458141	-0.965047	0.905176
6	4.647144	-1.802422	0.981347	6	4.775171	-1.200217	1.296602
6	5.741008	-1.519716	0.158998	6	5.824896	-1.039165	0.388553
6	5.553146	-0.776069	-1.006805	6	5.550402	-0.632203	-0.917881
6	4.279082	-0.320715	-1.345341	6	4.234351	-0.388690	-1.310649
1	2.534829	-1.560401	1.303979	1	2.652863	-1.076640	1.626373
1	4.786951	-2.373086	1.895545	1	4.981645	-1.509043	2.317854
1	6.732991	-1.872880	0.427946	1	6.849594	-1.225835	0.698700
1	6.396668	-0.549288	-1.653554	1	6.359124	-0.503453	-1.632457
1	4.136171	0.253785	-2.257477	1	4.024332	-0.076822	-2.331018
7	-0.376563	-0.868109	-1.629754	7	-0.325058	-1.494303	-1.262877
8	-0.542343	0.219512	-2.251759	8	-0.665114	-0.553736	-2.075680
8	-1.291262	-1.763929	-1.626634	8	-1.088980	-2.472892	-1.063764
1	1.542064	0.862908	1.238895	1	1.441117	1.145672	1.037809
6	-0.058801	2.879574	-1.122799	6	-0.407345	2.379463	-1.662637
1	-0.926061	2.622176	-1.730386	1	-1.334990	1.968747	-2.064101
1	0.794372	2.818725	-1.801410	1	0.367407	2.092191	-2.376925
6	-0.177975	4.319084	-0.581883	6	-0.485870	3.918458	-1.589229
1	-0.300328	5.021184	-1.413674	1	-0.732488	4.323590	-2.576477
1	-1.041101	4.436766	0.083259	1	-1.254438	4.261515	-0.887627
1	0.713677	4.616265	-0.021009	1	0.465283	4.357460	-1.275111
8	-3.495880	-1.705024	0.785764	8	-3.308501	-1.423523	0.765049
8	-3.713287	-0.707714	-1.700602	8	-3.374104	-0.734941	-1.878117

1	-3.703751	-1.348561	-0.118343	1	-3.314767	-1.263242	-0.217428
1	-2.781857	-1.004210	-1.903042	1	-2.397177	-0.719363	-2.059916
6	-3.624145	-3.128056	0.724308	6	-3.652258	-2.792595	0.996902
1	-3.323092	-3.527229	1.695927	1	-3.584374	-2.969145	2.073657
1	-4.665139	-3.418038	0.530907	1	-4.681427	-2.994473	0.672614
1	-2.974809	-3.553248	-0.050346	1	-2.962147	-3.466381	0.478207
6	-4.567255	-1.042499	-2.784602	6	-3.954212	-1.695834	-2.755153
1	-5.585745	-0.750657	-2.511287	1	-4.996869	-1.837874	-2.454694
1	-4.282632	-0.500663	-3.696507	1	-3.940015	-1.342936	-3.795878
1	-4.558756	-2.120133	-3.001932	1	-3.427052	-2.656073	-2.698283
<i>s-re</i>							
Et = -1342.0997292 (-1342.48120261)							
(-1342.50754514)							
NImag = 1(-331.8 cm ⁻¹)							
6	1.151391	-0.311038	1.375811				
6	-0.241652	-0.100599	1.622515				
6	-0.685675	1.155949	2.343005				
7	-1.190157	-0.987945	1.271423				
6	-0.919720	-2.327176	0.695981				
6	-2.315607	-2.986219	0.586689				
6	-3.163054	-2.246818	1.628079				
6	-2.636376	-0.812890	1.553837				
6	-0.181548	-2.347231	-0.657658				
8	-0.666581	-1.627097	-1.663496				
8	0.809130	-3.038352	-0.792496				
1	-2.993684	-2.658705	2.630113				
1	-4.233938	-2.299985	1.414331				
1	-2.732446	-2.814437	-0.409493				
1	-2.253480	-4.064507	0.753197				
1	-0.271807	-2.880924	1.383242				
1	-2.779463	-0.272375	2.488981				
1	-3.109435	-0.239548	0.750969				
1	-1.525905	-1.135484	-1.492245				
1	-1.647707	1.490210	1.951205				
1	0.028734	1.947332	2.097318				
6	1.641365	0.682266	-0.357210				
1	0.958530	0.083043	-0.948221				
6	1.285018	2.056523	-0.318483				
1	1.407556	-1.306731	1.021547				
7	-0.015554	2.416102	-0.501132				
8	-0.374781	3.614269	-0.538965				
8	-0.880359	1.464224	-0.606758				
6	3.072793	0.316158	-0.548932				
6	3.385518	-0.912299	-1.157603				
6	4.711253	-1.275805	-1.390784				
6	5.752228	-0.424238	-1.016993				
6	5.456870	0.795336	-0.403900				
6	4.132344	1.160484	-0.170606				
1	2.584852	-1.588209	-1.445635				
1	4.928630	-2.227727	-1.867701				
1	6.785299	-0.707642	-1.200200				
1	6.259258	1.466072	-0.107991				
1	3.924901	2.111856	0.309784				
1	1.957851	2.886442	-0.167895				
6	2.152630	0.216512	2.393288				
1	3.169446	0.017804	2.047321				
1	2.063807	1.296883	2.550429				
1	2.039591	-0.275021	3.367692				
6	-0.761976	1.006348	3.876783				
1	0.209589	0.757669	4.311358				
1	-1.096563	1.950134	4.319965				
1	-1.469297	0.226383	4.180504				

1	-3.322452	0.298309	-1.460441
8	-3.114394	-0.631154	-1.752271
8	-3.466722	1.852404	-0.762636
1	-2.478713	1.963539	-0.691651
6	-3.398425	-0.744240	-3.145151
1	-3.057937	-1.729654	-3.473495
1	-4.476645	-0.661914	-3.336353
1	-2.871815	0.019492	-3.732418
6	-4.016770	2.995676	-1.405807
1	-5.103744	2.872930	-1.434328
1	-3.778705	3.911626	-0.850917
1	-3.648315	3.111499	-2.435214

Table S39. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Cyclohexanone (**3**) to Nitrostyrene Assisted Pathway (C_2 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1380.207223 (-1380.59515760) (-1380.62363905) NImag=1(-250.25 cm ⁻¹)				<i>a-si II</i> Et = -1380.2080934 (-1380.5960502) (-1380.624659) NImag=1(-285.86 cm ⁻¹)			
6	3.708312	-2.022961	0.065949	6	3.726958	-1.996229	-0.268232
6	2.531567	-1.333737	0.402553	6	2.558781	-1.376683	0.206525
6	2.529679	-0.558315	1.575508	6	2.579269	-0.820208	1.498565
6	3.670767	-0.466323	2.370791	6	3.733768	-0.875175	2.278635
6	4.837539	-1.148752	2.016167	6	4.889760	-1.488339	1.789641
6	4.851140	-1.931873	0.861979	6	4.881284	-2.052347	0.513005
6	1.323150	-1.473131	-0.468526	6	1.337031	-1.375369	-0.649466
6	0.077245	-1.673275	0.210191	6	0.098691	-1.664810	-0.006380
7	-1.008430	-2.103534	-0.472292	7	-0.991751	-1.994091	-0.742043
8	-0.965857	-2.298208	-1.721091	8	-0.956359	-2.001076	-2.004454
8	-2.111624	-2.259476	0.172730	8	-2.087653	-2.250520	-0.121244
6	1.198843	-0.055950	-1.738723	6	1.210012	0.275844	-1.716384
6	2.469140	-0.037774	-2.600805	6	2.495653	0.433758	-2.527817
6	0.851193	1.132544	-1.019421	6	0.827504	1.331072	-0.833910
6	1.916375	2.106398	-0.560124	6	1.901972	2.185674	-0.199788
7	-0.424094	1.372732	-0.682611	7	-0.462804	1.516111	-0.508779
6	-0.845442	2.408978	0.306272	6	-0.943205	2.340705	0.639598
6	-2.315757	2.736067	-0.050917	6	-2.428640	2.639508	0.331002
6	-2.538861	2.091756	-1.431662	6	-2.607574	2.257534	-1.149673
6	-1.621013	0.870057	-1.404908	6	-1.623553	1.103622	-1.338286
6	-0.580886	1.880122	1.737888	6	-0.621679	1.588670	1.955402
8	-1.387187	0.954046	2.240938	8	-1.400708	0.581353	2.331988
8	0.391156	2.271484	2.355986	8	0.374981	1.885062	2.585124
1	-2.239043	2.775120	-2.234771	1	-2.342016	3.095914	-1.804227
1	-3.578046	1.796964	-1.597347	1	-3.627691	1.943311	-1.383870
1	-3.005230	2.306914	0.679681	1	-3.095200	2.043662	0.958262
1	-2.475459	3.817549	-0.057139	1	-2.652809	3.691906	0.525294
1	-0.208156	3.286995	0.198603	1	-0.366333	3.264400	0.688060
1	-1.339928	0.507235	-2.391850	1	-1.309153	0.958052	-2.370994
1	-2.085967	0.052111	-0.855629	1	-2.053987	0.171621	-0.972701
1	1.473639	-2.194358	-1.272961	1	1.468855	-1.934782	-1.575023
1	-0.097765	-1.454129	1.252069	1	-0.074034	-1.601939	1.056828
1	1.638706	-0.016205	1.877388	1	1.695554	-0.336080	1.904464
1	3.644507	0.141083	3.271308	1	3.725929	-0.437062	3.272871
1	5.725233	-1.074748	2.638525	1	5.787310	-1.530304	2.400695
1	5.747565	-2.478753	0.581849	1	5.770644	-2.542491	0.125761
1	3.720982	-2.655007	-0.818623	1	3.723317	-2.452691	-1.255069
1	0.358828	-0.535338	-2.238235	1	0.396644	-0.145506	-2.303935
1	1.931480	2.168053	0.533406	1	2.334105	1.647366	0.652776

1	-2.216314	0.712277	1.723372	1	-2.239824	0.407858	1.805214
8	-3.780777	0.211314	1.463590	8	-3.809745	-0.073087	1.505735
1	-4.018386	-0.238738	0.610137	1	-4.041789	-0.391102	0.594128
6	-4.043878	-0.716846	2.521237	6	-4.049663	-1.153145	2.413030
1	-5.117509	-0.935382	2.588058	1	-5.118170	-1.402789	2.446949
1	-3.485318	-1.647943	2.374511	1	-3.471567	-2.040005	2.130377
1	-3.722854	-0.247385	3.454382	1	-3.735865	-0.820517	3.405604
8	-4.239354	-1.122764	-0.861498	8	-4.232812	-1.021162	-1.008402
1	-3.460832	-1.724765	-0.697931	1	-3.448257	-1.630190	-0.926621
6	-5.383131	-1.901229	-1.184701	6	-5.353342	-1.745850	-1.495778
1	-6.232228	-1.219477	-1.291771	1	-6.209260	-1.064537	-1.513838
1	-5.244658	-2.436536	-2.133658	1	-5.177577	-2.111406	-2.516429
1	-5.621047	-2.635506	-0.401810	1	-5.603787	-2.604286	-0.856146
1	1.605062	3.104636	-0.905425	1	1.483822	3.104547	0.214396
6	3.316602	1.800361	-1.115863	6	3.011708	2.522845	-1.213859
6	3.225792	1.298208	-2.557523	6	3.593589	1.252898	-1.835536
1	3.922856	2.711066	-1.050438	1	2.878391	-0.557820	-2.800964
1	3.810582	1.046312	-0.494336	1	2.233256	0.919677	-3.479764
1	2.706515	2.046103	-3.174569	1	4.374597	1.506227	-2.562866
1	4.225379	1.173252	-2.989857	1	4.071305	0.654795	-1.052488
1	2.193902	-0.279380	-3.634649	1	3.791622	3.098942	-0.702452
1	3.150070	-0.833523	-2.275380	1	2.602292	3.172680	-2.000305
<i>a-re</i> Et = -1342.1006377 (-1380.59304244) (-1380.62608291) NImag= 1(-212.27 cm ⁻¹)				<i>a-re II</i> Et = -1380.2061713 (-1380.5941399) (-1380.625423) NImag= 1(-280.7 cm ⁻¹)			
6	-3.350574	1.540930	0.854336	6	-3.210093	1.850816	0.542912
6	-2.104808	0.894068	0.933097	6	-2.005680	1.153366	0.742930
6	-1.977804	-0.186417	1.822123	6	-1.879365	0.367837	1.901693
6	-3.059515	-0.618611	2.590076	6	-2.923031	0.275038	2.824126
6	-4.294457	0.023998	2.488408	6	-4.115772	0.965305	2.606374
6	-4.433280	1.108882	1.620794	6	-4.253448	1.755375	1.462231
6	-0.913862	1.328762	0.130354	6	-0.847875	1.263592	-0.195117
6	-0.886921	0.517599	-1.551115	6	-1.012494	-0.012963	-1.671080
6	-2.161513	0.837925	-2.347275	6	-2.362695	0.135803	-2.370567
6	-0.783139	2.748093	-0.077478	6	-0.621590	2.547997	-0.779251
7	0.403592	3.281827	-0.457041	7	0.606606	2.872692	-1.268296
8	0.570237	4.515343	-0.543440	8	0.876069	4.038975	-1.624386
6	-0.574687	-0.871797	-1.336054	6	-0.677248	-1.292357	-1.125330
6	-1.671719	-1.898671	-1.180518	6	-1.778562	-2.168763	-0.578524
7	0.697713	-1.272350	-1.205180	7	0.600341	-1.691936	-1.036236
6	1.105453	-2.636143	-0.772784	6	1.071835	-2.850158	-0.232179
6	2.642324	-2.641687	-0.929343	6	2.593296	-2.889691	-0.490941
6	2.901006	-1.591404	-2.016553	6	2.737385	-2.264083	-1.883804
6	1.871877	-0.502832	-1.708297	6	1.704618	-1.136039	-1.866635
6	0.639230	-2.999992	0.652088	6	0.692726	-2.745810	1.258594
8	0.939648	-2.151192	1.638676	8	1.055508	-1.641544	1.921342
8	0.016608	-4.018635	0.853729	8	0.071009	-3.632690	1.799372
8	1.374178	2.459962	-0.740615	8	1.496827	1.935426	-1.341583
1	2.721695	-2.012147	-3.013144	1	2.492450	-2.994463	-2.664191
1	3.922529	-1.202422	-1.991925	1	3.745867	-1.887578	-2.074306
1	3.120057	-2.328569	0.003354	1	3.120639	-2.270691	0.240026
1	3.004338	-3.640236	-1.186409	1	2.974328	-3.911868	-0.424026
1	0.647126	-3.379517	-1.431588	1	0.602603	-3.769499	-0.594441
1	1.578017	0.071084	-2.588140	1	1.318777	-0.891772	-2.858958
1	2.216989	0.203622	-0.952059	1	2.086805	-0.216574	-1.421490
1	-1.576191	3.468030	0.051401	1	-1.344657	3.347582	-0.824558
1	0.010454	0.887640	0.504203	1	0.064942	0.827599	0.205317
1	-1.019627	-0.688725	1.925787	1	-0.949908	-0.163015	2.091682
1	-2.931399	-1.455001	3.271819	1	-2.797639	-0.335234	3.714340
1	-5.137910	-0.310515	3.086251	1	-4.929265	0.894745	3.323234
1	-5.385508	1.627061	1.543410	1	-5.175036	2.304184	1.286970

1	-3.479565	2.397172	0.199536	1	-3.336067	2.474080	-0.337298
1	1.605401	-1.430806	1.419999	1	1.704710	-1.031656	1.461781
1	-0.024477	1.088582	-1.885100	1	-0.200315	0.449057	-2.224992
1	-1.696789	-2.282764	-0.153793	1	-2.096442	-1.779619	0.398680
8	2.948705	-0.471238	1.607072	8	3.079504	-0.075930	1.280686
1	3.121320	0.452088	1.263246	1	3.253931	0.792999	0.815614
6	3.338887	-0.504909	2.980370	6	3.826203	-0.078113	2.495050
1	4.427609	-0.409207	3.082953	1	4.903045	-0.000730	2.297561
1	2.857255	0.295095	3.556263	1	3.527458	0.744266	3.159111
1	3.029364	-1.470478	3.388242	1	3.626257	-1.023809	3.005687
8	3.419991	2.027978	0.830637	8	3.692463	2.253080	0.080841
1	2.651245	2.365443	0.288945	1	2.970539	2.285154	-0.603030
6	4.626487	2.435127	0.200192	6	3.561042	3.426098	0.880423
1	4.722514	2.031793	-0.818561	1	3.481071	4.319934	0.250989
1	4.692551	3.529082	0.147459	1	2.678707	3.386101	1.536522
1	5.461805	2.064794	0.802182	1	4.456682	3.509307	1.503446
1	-1.403476	-2.763695	-1.803897	1	-1.429493	-3.187696	-0.401637
6	-3.063952	-1.381313	-1.584881	6	-2.987247	-2.171885	-1.537414
6	-2.958876	-0.408259	-2.760859	6	-3.483286	-0.748429	-1.802704
1	-1.880039	1.411216	-3.238174	1	-2.699008	-2.655482	-2.481295
1	-2.808322	1.498164	-1.759436	1	-3.782948	-2.784906	-1.098674
1	-2.465833	-0.908510	-3.607476	1	-2.656868	1.193046	-2.359610
1	-3.955575	-0.113251	-3.108759	1	-2.215672	-0.115640	-3.431633
1	-3.535565	-0.877619	-0.735099	1	-3.862682	-0.323300	-0.867869
1	-3.694995	-2.241568	-1.834518	1	-4.324800	-0.765961	-2.506144
<i>s-si</i> Et = -1380.2105649 (-1380.5982569) (-1380.624498) NImag=1(-306.72 cm ⁻¹)				<i>s-si (II)</i> Et = -1380.2095387 (-1380.59716414) (-1380.62338701) NImag=1(-320.4 cm ⁻¹)			
6	-1.535552	1.133541	-0.612989	6	1.461241	1.132773	0.611804
6	-0.317002	1.798692	-0.307561	6	0.197218	1.751016	0.370040
7	0.856295	1.349300	-0.797809	7	-0.938372	1.258749	0.897804
6	0.981166	0.611829	-2.093488	6	-0.994675	0.414956	2.133001
6	2.436339	0.883790	-2.560841	6	-2.449003	0.566373	2.642976
6	2.943791	2.027026	-1.666111	6	-2.981505	1.828488	1.951583
6	2.192401	1.800734	-0.355672	6	-2.284159	1.801523	0.591541
6	0.614723	-0.893622	-2.057307	6	-0.555076	-1.062525	1.987214
8	1.441105	-1.760040	-1.491095	8	-1.335861	-1.921283	1.351496
8	-0.418447	-1.267044	-2.583145	8	0.487517	-1.423541	2.503081
1	2.675978	3.003544	-2.087136	1	-2.691098	2.730227	2.504341
1	4.028327	1.998440	-1.531013	1	-4.070664	1.824092	1.855637
1	3.062203	0.001189	-2.413691	1	-3.054930	-0.293202	2.347231
1	2.455517	1.131541	-3.625579	1	-2.467414	0.629710	3.734445
1	0.254264	1.047922	-2.782595	1	-0.280789	0.838929	2.844443
1	2.123967	2.688277	0.268112	1	-2.207417	2.787828	0.139019
1	2.651720	1.020474	0.259839	1	-2.787210	1.147702	-0.130115
1	2.290090	-1.410153	-1.082539	1	-2.197321	-1.578123	0.960532
6	-1.662476	-0.265112	0.870500	6	1.687385	-0.181330	-0.879347
6	-0.499532	-1.071675	0.948410	6	0.556466	-1.028617	-1.039620
6	-2.834748	1.933344	-0.588214	6	2.718361	2.016243	0.619145
1	-1.751317	0.451364	1.683648	1	1.775482	0.566447	-1.663804
1	-0.401335	-2.044646	0.493855	1	0.479256	-2.031020	-0.649623
6	-2.935589	-0.965653	0.531665	6	2.977643	-0.863234	-0.554939
6	-3.031143	-1.863182	-0.546246	6	3.092154	-1.793069	0.492663
6	-4.226602	-2.533373	-0.799674	6	4.302904	-2.442328	0.728464
6	-5.345086	-2.322189	0.011139	6	5.418402	-2.178694	-0.070834
6	-5.263058	-1.427783	1.078848	6	5.316987	-1.254887	-1.111128
6	-4.069142	-0.751927	1.332460	6	4.107390	-0.600384	-1.346730
1	-2.175980	-2.022156	-1.197499	1	2.238655	-1.998315	1.132721
1	-4.284818	-3.222485	-1.637976	1	4.374917	-3.156960	1.544071
1	-6.274360	-2.848036	-0.191284	1	6.359560	-2.688216	0.118174
1	-6.126417	-1.255063	1.716043	1	6.176714	-1.042515	-1.741226

1 -4.007460 -0.062321 2.171148	1 4.030218 0.109668 -2.166929
7 0.599341 -0.654620 1.634983	7 -0.540687 -0.580252 -1.698879
8 0.647351 0.492166 2.163461	8 -0.593632 0.610221 -2.126993
8 1.594444 -1.455288 1.730764	8 -1.528806 -1.378637 -1.874889
1 -1.492388 0.419723 -1.430648	1 1.459884 0.394592 1.408062
6 -0.346676 2.988163 0.637159	6 0.108434 3.005775 -0.483126
1 -0.285030 2.606156 1.662529	1 -0.565759 2.834771 -1.323899
8 3.895024 -1.408860 -0.606914	8 -3.790982 -1.593226 0.481326
8 3.932008 -0.227114 1.809156	8 -3.838923 -0.121254 -1.761567
1 4.034735 -0.967163 0.272496	1 -3.940554 -1.055299 -0.341299
1 3.020070 -0.579174 2.008016	1 -2.932329 -0.463293 -2.009331
6 4.199091 -2.795623 -0.438618	6 -4.034066 -2.962690 0.148624
1 3.969787 -3.299415 -1.380761	1 -3.794692 -3.562164 1.030331
1 5.264003 -2.937212 -0.212519	1 -5.089490 -3.119879 -0.109142
1 3.593278 -3.243252 0.358613	1 -3.400067 -3.288008 -0.684819
6 4.768053 -0.386110 2.945203	6 -4.682260 -0.127487 -2.903714
1 5.765839 -0.023317 2.680364	1 -5.676682 0.203382 -2.588970
1 4.398704 0.202160 3.795987	1 -4.312756 0.563060 -3.673606
1 4.850075 -1.437298 3.257066	1 -4.771591 -1.129294 -3.347616
1 0.530031 3.622451 0.487664	1 -0.338717 3.796269 0.140202
6 -1.611308 3.849219 0.466488	6 1.471629 3.498185 -0.981630
6 -2.879664 2.997868 0.511530	6 2.483697 3.464885 0.163246
1 -2.952156 2.425311 -1.566268	1 1.816742 2.871685 -1.813530
1 -3.682597 1.247724 -0.497783	1 1.354555 4.511888 -1.382085
1 -2.966296 2.521070 1.497505	1 3.435607 3.919127 -0.135434
1 -3.770609 3.625367 0.388471	1 2.096141 4.068727 0.996582
1 -1.621103 4.615034 1.251249	1 3.488004 1.562325 -0.014660
1 -1.565977 4.382873 -0.493439	1 3.137642 2.008310 1.632787
<i>s-re</i> Et = -1380.2086101 (-1380.59640746) (-1380.62384713) NImag = 1(-316.36 cm ⁻¹)	<i>s-re(II)</i> Et = -1380.208314 (-1380.5961662) (-1380.622596) NImag = 1(-307.3 cm ⁻¹)
6 1.219378 -0.294519 1.268632	6 1.175350 -0.350209 1.155744
6 -0.098349 0.099510 1.650457	6 -0.189708 -0.144415 1.504918
6 -0.247011 1.497020 2.201308	6 -0.418268 1.079859 2.347498
7 -1.170553 -0.704991 1.530728	7 -1.192821 -0.994362 1.225607
6 -1.091703 -2.139613 1.150140	6 -1.000768 -2.322400 0.598846
6 -2.543955 -2.657240 1.282884	6 -2.416096 -2.944554 0.588894
6 -3.218711 -1.664658 2.235956	6 -3.139974 -2.241786 1.743468
6 -2.558717 -0.329393 1.888264	6 -2.586784 -0.814950 1.696143
6 -0.507172 -2.449003 -0.246269	6 -0.366154 -2.318476 -0.806031
8 -1.070268 -1.903089 -1.317345	8 -0.924219 -1.576607 -1.756780
8 0.439293 -3.205920 -0.347178	8 0.610674 -3.006630 -1.029453
1 -3.008443 -1.924186 3.280280	1 -2.886210 -2.710936 2.701422
1 -4.303553 -1.628985 2.105847	1 -4.227499 -2.262030 1.632900
1 -3.045113 -2.625018 0.312449	1 -2.920530 -2.711845 -0.352711
1 -2.558035 -3.689097 1.643035	1 -2.367795 -4.031109 0.696795
1 -0.422249 -2.646048 1.852522	1 -0.314186 -2.909284 1.219092
1 -2.566162 0.354090 2.737280	1 -2.597077 -0.342392 2.679970
1 -3.039023 0.174393 1.042894	1 -3.140038 -0.173966 1.001939
1 -1.891284 -1.344980 -1.164115	1 -1.761828 -1.083965 -1.502306
1 -0.087191 2.188375 1.362749	1 0.063252 1.912259 1.819187
6 1.496110 0.452601 -0.645201	6 1.541892 0.654900 -0.626191
1 0.745570 -0.221349 -1.042000	1 0.820902 0.047833 -1.160900
6 1.149203 1.818278 -0.820640	6 1.188165 2.022870 -0.544088
1 1.334891 -1.339486 0.994267	1 1.440964 -1.338948 0.791911
7 -0.157391 2.173936 -0.998216	7 -0.126995 2.391832 -0.612370
8 -0.483490 3.352174 -1.269653	8 -0.471509 3.593390 -0.639741
8 -1.052552 1.260825 -0.850513	8 -1.004731 1.452373 -0.615947
6 2.891857 0.019564 -0.930467	6 2.959960 0.285175 -0.887090
6 3.118256 -1.305275 -1.344503	6 3.236759 -0.942082 -1.515841
6 4.403452 -1.744390 -1.658629	6 4.548649 -1.316151 -1.802148

6	5.490044	-0.873268	-1.559690	6	5.611272	-0.476687	-1.462216
6	5.281324	0.442205	-1.140358	6	5.351012	0.741927	-0.832016
6	3.996627	0.883493	-0.826928	6	4.039850	1.118761	-0.546746
1	2.280597	-1.994464	-1.416055	1	2.417710	-1.608381	-1.773552
1	4.553875	-2.770401	-1.983493	1	4.738983	-2.266919	-2.292767
1	6.491560	-1.215732	-1.806066	1	6.633926	-0.768649	-1.686002
1	6.119933	1.128770	-1.058999	1	6.170573	1.403572	-0.563922
1	3.856382	1.911069	-0.504580	1	3.860731	2.071051	-0.057024
1	1.841050	2.642601	-0.899090	1	1.873145	2.852959	-0.466287
6	2.376344	0.188954	2.147674	6	2.166152	0.265318	2.145722
1	-3.630277	0.149982	-1.265705	1	-3.538086	0.355134	-1.278545
8	-3.484585	-0.829855	-1.376392	8	-3.364556	-0.567395	-1.611507
8	-3.625674	1.817757	-0.931577	8	-3.602221	1.902585	-0.560959
1	-2.630673	1.858244	-0.930499	1	-2.611300	1.990446	-0.549313
6	-3.891134	-1.200895	-2.691802	6	-3.758315	-0.637070	-2.980120
1	-3.619320	-2.249302	-2.839113	1	-3.448582	-1.612420	-3.364188
1	-4.977706	-1.097886	-2.813150	1	-4.847954	-0.547257	-3.083276
1	-3.387454	-0.599513	-3.460149	1	-3.276788	0.143407	-3.584009
6	-4.124289	2.826745	-1.801410	6	-4.159127	3.056680	-1.178874
1	-5.216360	2.817804	-1.732699	1	-5.247217	2.941795	-1.180158
1	-3.757914	3.816785	-1.503879	1	-3.900637	3.965602	-0.621362
1	-3.835900	2.653304	-2.848284	1	-3.815783	3.179643	-2.215900
1	-1.248774	1.698511	2.578551	1	-1.467925	1.350222	2.457674
6	0.816229	1.813363	3.270938	6	0.285389	0.921494	3.726002
6	2.215129	1.614052	2.685832	6	1.634327	0.176867	3.588876
1	0.674798	1.164370	4.146449	1	3.129222	-0.244472	2.054887
1	0.677189	2.845424	3.613944	1	2.350757	1.321465	1.902048
1	2.985162	1.814602	3.440743	1	2.367993	0.586617	4.293285
1	2.367557	2.338472	1.875619	1	1.506446	-0.881123	3.851048
1	3.317657	0.091168	1.597979	1	0.437706	1.925084	4.139181
1	2.455564	-0.504453	2.999832	1	-0.373159	0.392167	4.424813

Table S40. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent Assisted Pathway (**L**₁ model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1226.3615284 (-1226.7006648) (-1226.7276096) NImag=1(-312.67 cm ⁻¹)				<i>a-re</i> Et = -1226.3558732 (-1226.6959613) (-1226.7232295) NImag= 1(-315.90 cm ⁻¹)			
6	-3.794554	-1.751152	0.462975	6	-3.335541	-1.695120	-0.199278
6	-2.749414	-1.050038	-0.161627	6	-2.970161	-0.337724	-0.217652
6	-3.082951	-0.101797	-1.146230	6	-3.961966	0.624300	0.038178
6	-4.413022	0.134625	-1.487964	6	-5.280656	0.243384	0.285320
6	-5.440244	-0.570500	-0.855502	6	-5.629905	-1.107718	0.293508
6	-5.125840	-1.516970	0.120116	6	-4.651255	-2.076120	0.052763
6	-1.341950	-1.359456	0.211360	6	-1.589575	0.114313	-0.519496
6	-0.367429	-1.362459	-0.826368	6	-0.616616	-0.197471	1.372782
7	0.874103	-1.844451	-0.605250	6	-1.385288	0.727686	2.297642
8	1.163972	-2.492359	0.434837	6	-0.897645	-0.536617	-1.560537
8	1.802385	-1.584459	-1.482210	7	0.290211	-0.079269	-2.038516
6	-0.772267	-0.115035	1.704847	8	0.934053	-0.728167	-2.891588
6	-1.961719	0.028680	2.632995	6	0.774225	-0.000503	1.152694
6	-0.217109	1.018305	1.037152	6	1.425850	1.308285	1.541987
6	-1.085056	2.188108	0.635723	6	2.088366	1.239079	2.933900
6	-1.021261	3.316532	1.690265	7	1.528984	-0.989840	0.634011
7	1.078018	1.013067	0.693229	6	3.006456	-0.987503	0.422542
6	1.716221	1.977264	-0.256365	6	3.197570	-2.191453	-0.516734
6	3.216401	1.629993	-0.179323	6	2.234578	-3.226390	0.069970

6	3.395326	1.093185	1.242695	6	1.023711	-2.388690	0.511379
6	2.129270	0.262644	1.448099	6	3.793551	0.229132	-0.119970
6	1.168565	1.960793	-1.702681	8	3.350993	0.934167	-1.153117
8	1.237430	0.842005	-2.417703	8	4.891738	0.420976	0.358839
8	0.727555	2.986813	-2.180112	8	0.768083	1.034135	-1.571076
1	3.449978	1.913842	1.968445	1	2.691417	-3.722143	0.933725
1	4.284567	0.466803	1.330952	1	1.950148	-3.999604	-0.648699
1	3.468381	0.841127	-0.894356	1	2.895169	-1.908932	-1.531531
1	3.831110	2.504771	-0.406425	1	4.239951	-2.518118	-0.534938
1	1.540886	2.995261	0.101179	1	3.486790	-1.197545	1.384711
1	1.820528	0.189560	2.493150	1	0.621833	-2.715929	1.477966
1	2.259249	-0.746731	1.050906	1	0.218878	-2.423427	-0.221930
1	-2.781296	0.607928	2.199801	1	-1.386315	1.764347	1.944544
1	-2.361293	-0.957803	2.888623	1	-2.426150	0.401684	2.363285
1	-1.667991	0.509513	3.575316	1	-0.979265	0.722511	3.317535
1	-1.250637	-2.197290	0.899214	1	-1.207379	-1.472619	-2.002655
1	-0.491673	-0.842823	-1.763322	1	-1.441403	1.184732	-0.428996
1	-2.300827	0.454257	-1.655076	1	-3.691844	1.676819	0.028847
1	-4.647003	0.868837	-2.253910	1	-6.034536	1.003258	0.472058
1	-6.476259	-0.385865	-1.125548	1	-6.655995	-1.406227	0.489572
1	-5.915502	-2.078343	0.611972	1	-4.914489	-3.130350	0.063398
1	-3.557127	-2.502010	1.212408	1	-2.583404	-2.459855	-0.376510
1	-0.024947	-0.808923	2.080759	1	2.385320	0.814275	-1.399654
1	-2.117652	1.847532	0.532747	1	-0.939751	-1.232062	1.423645
1	-0.788201	2.593768	-0.333728	1	0.666952	2.091697	1.526223
1	-0.003201	3.703874	1.804513	1	2.165967	1.612971	0.803732
1	-1.662775	4.146898	1.378889	1	2.928551	0.537785	2.950337
1	-1.362900	2.971575	2.671182	1	2.480283	2.225963	3.199507
1	1.563527	0.004263	-1.963009	1	1.376155	0.938672	3.709446
1	3.457126	-1.814570	-0.684344	1	-0.046749	2.582957	-0.876106
8	4.302396	-1.691060	-0.201889	8	-0.559771	3.220795	-0.339795
6	4.700732	-2.958858	0.288214	6	-0.753405	4.402304	-1.102392
1	5.008993	-3.641059	-0.520446	1	-1.298857	4.212438	-2.038968
1	5.563992	-2.806009	0.945064	1	-1.347546	5.089771	-0.492915
1	3.903986	-3.449406	0.865513	1	0.197383	4.896400	-1.349831
<i>s-si</i> Et = -1226.3574284 (-1226.696541) (-1226.7237364) NImag = 1(-311.3 cm ⁻¹)				<i>s-re</i> Et = -1226.3578989 (-1226.6984012) (-1226.7261202) NImag = 1(-338.83 cm ⁻¹)			
6	0.993856	1.425036	0.273285	6	-0.643231	0.334891	1.219550
6	-0.362856	1.621963	-0.088744	6	0.780520	0.208309	1.157010
7	-1.352906	0.969822	0.557929	6	1.445350	-1.033327	1.710452
6	-1.222957	0.432212	1.944440	7	1.569099	1.164636	0.636889
6	-2.685291	0.288186	2.444223	6	1.081208	2.463635	0.133773
6	-3.509464	1.178310	1.507500	6	2.372420	3.251052	-0.221033
6	-2.784798	1.023732	0.172226	6	3.473548	2.556605	0.587523
6	-0.459681	-0.896344	2.156501	6	3.050132	1.088185	0.563434
8	-0.936190	-2.017441	1.606982	6	0.183162	2.432268	-1.112748
8	0.479464	-0.924956	2.925786	8	0.402614	1.483063	-2.032640
1	-3.481956	2.223888	1.838006	8	-0.615368	3.323542	-1.297586
1	-4.555793	0.867990	1.442831	1	3.488175	2.928068	1.619079
1	-3.003526	-0.754046	2.347227	1	4.468952	2.703815	0.159707
1	-2.764018	0.563736	3.499070	1	2.578257	3.154046	-1.292572
1	-0.670024	1.168223	2.533889	1	2.256763	4.313900	0.001486
1	-2.976525	1.847006	-0.511084	1	0.510402	2.969705	0.918767
1	-3.065334	0.094848	-0.339525	1	3.447104	0.520629	1.403318
1	-1.373398	-1.919488	0.709566	1	3.358016	0.570020	-0.351648
6	1.558208	-0.188850	-0.981667	1	0.808262	0.644563	-1.686423
6	0.622639	-1.230929	-0.812821	1	2.310484	-1.306890	1.100860
6	2.039130	2.491265	0.008430	1	0.732793	-1.858259	1.612850
1	1.873113	3.378683	0.633280	6	-1.451559	-0.624071	-0.441793
1	3.032452	2.105998	0.250149	1	-1.037961	0.109489	-1.117061

1	2.061380	2.824509	-1.034438	6	-0.933368	-1.930305	-0.625444
1	1.441103	0.393513	-1.891133	1	-1.025801	1.324768	0.976120
1	0.769089	-2.071225	-0.153416	7	0.324825	-2.116624	-1.108935
6	2.961278	-0.427868	-0.563077	8	0.783478	-3.262035	-1.299391
6	3.282306	-1.069578	0.647039	8	1.079673	-1.082185	-1.328651
6	4.612161	-1.312011	0.984061	6	-2.911963	-0.432162	-0.245024
6	5.643062	-0.920592	0.125268	6	-3.484324	0.792290	-0.634529
6	5.336487	-0.274482	-1.073140	6	-4.853414	1.015693	-0.501486
6	4.006698	-0.023793	-1.409881	6	-5.678357	0.021118	0.027663
1	2.494768	-1.360986	1.337110	6	-5.123139	-1.197668	0.424055
1	4.843881	-1.806089	1.923514	6	-3.753935	-1.421661	0.292127
1	6.678539	-1.113541	0.392114	1	-2.850032	1.570666	-1.052931
1	6.130938	0.035403	-1.746610	1	-5.275765	1.965777	-0.816801
1	3.771394	0.474563	-2.347132	1	-6.746399	0.193130	0.129499
7	-0.613062	-1.141427	-1.374010	1	-5.757957	-1.977670	0.835679
8	-0.889191	-0.246897	-2.209563	1	-3.340567	-2.374399	0.609155
8	-1.522476	-1.987812	-1.000246	1	-1.450215	-2.849723	-0.397533
1	1.160984	0.888813	1.203493	6	-1.372692	-0.292674	2.397482
6	-0.717154	2.571643	-1.218048	1	-2.449161	-0.142830	2.291157
1	-1.513957	2.156829	-1.834346	1	-1.196311	-1.370955	2.473816
1	0.147833	2.654658	-1.879585	1	-1.072841	0.163102	3.349335
6	-1.098839	3.973499	-0.701363	6	1.861704	-0.905280	3.191459
1	-1.321971	4.634755	-1.545272	1	1.005307	-0.725040	3.846783
1	-1.985259	3.942305	-0.057840	1	2.343344	-1.833953	3.513913
1	-0.285568	4.426344	-0.124935	1	2.576220	-0.089431	3.347391
1	-3.163084	-1.487442	-1.838367	1	2.808988	-1.699679	-1.150741
8	-4.121489	-1.287288	-1.863134	8	3.714093	-1.749102	-0.774375
6	-4.803283	-2.473446	-1.505531	6	4.285731	-2.989613	-1.156268
1	-5.870846	-2.235676	-1.446491	1	5.224936	-3.104970	-0.604730
1	-4.675537	-3.274385	-2.250917	1	3.629038	-3.836659	-0.917587
1	-4.486871	-2.870513	-0.527397	1	4.515820	-3.027287	-2.232641

Table S41. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent Assisted Pathway (**L**₂ model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1342.0880675 (-1342.4700789) (-1342.4980674) NImag=1(-308.15 cm ⁻¹)				<i>a-re</i> Et = -1342.0898716 (-1342.4720602) (-1342.481230) NImag= 1(-276.28 cm ⁻¹)			
6	-3.912142	0.574205	-1.662227	6	-3.337572	1.261639	-0.610337
6	-2.836393	0.574832	-0.757637	6	-2.985595	0.026951	-0.033597
6	-3.119786	0.723324	0.612921	6	-3.977828	-0.961743	0.090696
6	-4.432340	0.862774	1.057854	6	-5.284321	-0.720091	-0.332187
6	-5.490652	0.858440	0.145248	6	-5.620137	0.510676	-0.897968
6	-5.225774	0.716631	-1.217406	6	-4.641184	1.499219	-1.037075
6	-1.451481	0.459306	-1.275807	6	-1.625370	-0.258786	0.466821
6	-0.431327	1.207067	-0.629706	6	-0.610216	-0.877134	-1.426879
7	0.796150	1.301315	-1.174157	6	-1.387276	-2.121301	-1.803607
8	1.066888	0.872985	-2.324553	6	-0.899919	0.778811	1.074361
8	1.759570	1.816623	-0.438268	7	0.283444	0.560378	1.700267
6	-0.930990	-1.551090	-1.326322	8	0.960464	1.526927	2.162605
6	-2.181542	-2.288287	-1.756919	6	0.772409	-0.940403	-1.128027
6	-0.325606	-1.800521	-0.062291	6	1.432437	-2.281606	-0.885046
6	-1.162326	-2.207572	1.129280	6	2.078249	-2.854855	-2.163835
6	-1.187808	-3.742827	1.304219	7	1.519854	0.184503	-1.104194
7	0.993974	-1.614450	0.096660	6	2.998497	0.278229	-0.939528
6	1.700473	-1.601994	1.413352	6	3.197483	1.779448	-0.663229
6	3.192963	-1.523785	1.031327	6	2.210801	2.440236	-1.630031

6	3.257085	-2.219389	-0.330385	6	1.010389	1.481316	-1.643533
6	1.983204	-1.729085	-1.016987	6	3.794607	-0.551103	0.092593
6	1.284035	-0.485554	2.394007	8	3.355145	-0.715498	1.337660
8	1.365047	0.786334	2.007572	8	4.894977	-0.934418	-0.242933
8	0.940755	-0.778545	3.520018	8	0.745855	-0.636739	1.813146
1	3.245803	-3.310162	-0.215317	1	2.653587	2.520459	-2.629003
1	4.141607	-1.922997	-0.896746	1	1.904322	3.434581	-1.298900
1	3.511378	-0.483173	0.916245	1	2.922761	1.992354	0.375852
1	3.815966	-1.988288	1.799862	1	4.237541	2.075458	-0.819710
1	1.490377	-2.536411	1.940343	1	3.466113	0.021003	-1.896638
1	1.593307	-2.426582	-1.761532	1	0.616894	1.319014	-2.654505
1	2.146096	-0.760511	-1.497287	1	0.204506	1.859680	-1.016676
1	-2.961265	-2.303113	-0.990970	1	-1.379792	-2.876314	-1.010406
1	-2.610525	-1.820062	-2.648441	1	-2.429916	-1.861232	-2.003086
1	-1.949257	-3.328088	-2.023042	1	-0.993117	-2.591814	-2.714320
1	-1.382155	0.449968	-2.360869	1	-1.168714	1.823129	1.008056
1	-0.538990	1.679128	0.335685	1	-1.475891	-1.263766	0.844400
1	-2.310207	0.737612	1.336523	1	-3.717445	-1.918532	0.535159
1	-4.628588	0.981730	2.119717	1	-6.038995	-1.493590	-0.219578
1	-6.513192	0.970584	0.494747	1	-6.636808	0.699712	-1.231292
1	-6.040388	0.722984	-1.936334	1	-4.895443	2.457921	-1.480760
1	-3.712129	0.482101	-2.726802	1	-2.586919	2.038276	-0.730858
1	-0.222121	-1.400295	-2.135289	1	2.396430	-0.496208	1.504331
1	-2.182346	-1.843413	0.987113	1	-0.951718	0.028145	-1.916039
1	-0.793814	-1.753868	2.051861	1	0.680446	-2.974116	-0.503583
1	-0.183776	-4.146989	1.471545	1	2.184177	-2.215606	-0.099808
1	-1.802230	-4.003362	2.171739	1	2.914483	-2.239064	-2.509949
1	-1.609912	-4.241680	0.426354	1	2.472048	-3.854983	-1.956539
1	1.617038	0.982276	1.058406	1	1.354737	-2.939445	-2.981369
1	3.385737	1.250579	-1.143696	1	-0.080032	-2.350648	1.840802
8	4.206852	0.755124	-1.347354	8	-0.606573	-3.147977	1.633935
6	4.653906	1.178719	-2.623350	6	-0.802643	-3.886250	2.830927
1	5.002872	2.223637	-2.617652	1	-1.339022	-3.307077	3.597313
1	5.500062	0.543715	-2.906889	1	-1.407058	-4.762035	2.577060
1	3.871746	1.081928	-3.390122	1	0.146436	-4.236416	3.261781
1	1.000323	3.381472	0.483238	1	0.535312	3.121788	1.305567
8	0.351561	3.902149	0.993406	8	0.166406	3.795655	0.694587
6	0.927649	4.202038	2.254224	6	-0.012099	5.003692	1.416995
1	1.223721	3.299216	2.806279	1	-0.674600	4.878091	2.286484
1	1.804682	4.863778	2.167883	1	0.941729	5.424739	1.768833
1	0.167029	4.729464	2.838978	1	-0.473618	5.727045	0.737783
<i>s-si</i> Et = -1342.0824498 (-1342.4648587) (-1342.491279) NImag = 1(-293.86 cm ⁻¹)				<i>s-re</i> Et = -1342.0862149 (-1342.4689892) (-1342.498926) NImag = 1(-320.82 cm ⁻¹)			
6	-1.534683	-1.590527	-0.051085	6	-1.199878	0.934497	1.091554
6	-0.232328	-1.985346	-0.435728	6	0.209573	1.123570	1.191892
7	0.832394	-1.735543	0.361327	6	0.989673	0.397902	2.266743
6	0.722728	-1.517032	1.832892	7	0.891696	1.937031	0.364041
6	2.141065	-1.827076	2.380448	6	0.264855	2.779083	-0.673326
6	2.811637	-2.654042	1.278016	6	1.431628	3.637804	-1.232721
6	2.239905	-2.042117	0.000567	6	2.484884	3.610355	-0.120362
6	0.250285	-0.136132	2.338038	6	2.352124	2.198507	0.449828
8	0.978141	0.949294	2.047760	6	-0.398168	2.042932	-1.846083
8	-0.698295	-0.065693	3.091347	8	0.150557	0.891702	-2.264396
1	2.525620	-3.710097	1.355602	8	-1.319356	2.556367	-2.439757
1	3.902641	-2.591935	1.307913	1	2.250746	4.353014	0.651543
1	2.689322	-0.892791	2.535624	1	3.494569	3.810331	-0.489047
1	2.081039	-2.340318	3.343605	1	1.832246	3.168372	-2.137946
1	-0.016523	-2.223478	2.219716	1	1.087941	4.639274	-1.499925
1	2.287973	-2.719642	-0.847987	1	-0.508702	3.406649	-0.219364
1	2.765413	-1.121349	-0.281712	1	2.694946	2.124796	1.480191

1	1.458201	0.933947	1.174053	1	2.906090	1.450840	-0.128065
6	-1.684587	0.400264	-0.922329	1	0.667972	0.403073	-1.576289
6	-0.553573	1.131370	-0.513613	1	1.981735	0.125977	1.896638
6	-2.766130	-2.297766	-0.577633	1	0.470383	-0.543706	2.471718
1	-2.852705	-3.310762	-0.162564	6	-1.527724	-0.807005	-0.096013
1	-3.665705	-1.751620	-0.283721	1	-1.131318	-0.312494	-0.969474
1	-2.778663	-2.389973	-1.668656	6	-0.762678	-1.913710	0.340495
1	-1.645120	0.004224	-1.932517	1	-1.714066	1.611523	0.412122
1	-0.544677	1.813342	0.321398	7	0.562537	-1.998882	0.056642
6	-3.021095	0.824301	-0.452271	8	1.217088	-3.024194	0.381607
6	-3.250954	1.249119	0.869823	8	1.171712	-1.012384	-0.511591
6	-4.516614	1.679577	1.260117	6	-3.007039	-0.886415	-0.109607
6	-5.572646	1.694986	0.344298	6	-3.712592	-0.077252	-1.019448
6	-5.358736	1.266787	-0.966722	6	-5.102460	-0.135072	-1.096827
6	-4.095103	0.827391	-1.358835	6	-5.816303	-0.999179	-0.263783
1	-2.448181	1.219203	1.601700	6	-5.129787	-1.803947	0.648453
1	-4.679692	2.000550	2.285055	6	-3.739913	-1.746927	0.727604
1	-6.557627	2.033536	0.653633	1	-3.164183	0.595240	-1.675323
1	-6.174244	1.273754	-1.684603	1	-5.626975	0.492109	-1.812184
1	-3.929916	0.499836	-2.382229	1	-6.900058	-1.046514	-0.324856
7	0.658718	0.887675	-1.074834	1	-5.677612	-2.479604	1.299591
8	0.788673	0.154269	-2.079699	1	-3.225249	-2.377883	1.446113
8	1.713787	1.409087	-0.507168	1	-1.143846	-2.764924	0.883236
1	-1.644653	-1.236721	0.970044	6	-1.996723	0.652196	2.353192
6	-0.013428	-2.710054	-1.751374	1	-3.040816	0.456884	2.099550
1	0.895014	-2.357375	-2.238738	1	-1.622291	-0.218102	2.902068
1	-0.827345	-2.444228	-2.429364	1	-1.983879	1.508951	3.038922
6	0.020717	-4.241450	-1.574327	6	1.118335	1.195740	3.582019
1	0.153468	-4.726863	-2.546884	1	0.144526	1.413785	4.029178
1	0.846176	-4.558652	-0.927336	1	1.698739	0.613233	4.304563
1	-0.908749	-4.617399	-1.134609	1	1.636225	2.149453	3.432047
1	3.284786	0.648188	-1.385563	1	2.953059	-1.042656	0.172494
8	4.184057	0.269112	-1.412322	8	3.757966	-0.646219	0.561020
6	5.029798	1.175246	-0.717073	6	4.589396	-1.698183	1.049046
1	6.063666	0.939140	-0.990315	1	5.581585	-1.272154	1.229883
1	4.820310	2.219072	-0.982623	1	4.212818	-2.109442	1.998196
1	4.939832	1.078000	0.378773	1	4.670822	-2.514706	0.323470
1	2.425305	3.126207	-0.990224	1	2.656397	-3.449878	-0.854717
8	2.910209	3.971755	-1.030089	8	3.414661	-3.665074	-1.432457
6	2.722967	4.617757	0.213773	6	3.456348	-2.705343	-2.472411
1	1.666327	4.862206	0.411020	1	3.644192	-1.686945	-2.099550
1	3.098231	4.026213	1.064286	1	4.281180	-2.983602	-3.136627
1	3.284776	5.556720	0.181262	1	2.530855	-2.686848	-3.069797

Table S42. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent Assisted Pathway (**C**₁ model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1226.3659841 (-1226.7055201) (-1226.732758) NImag=1(-297.61 cm ⁻¹)				<i>a-re</i> Et = -1226.3625779 (-1226.702091) (-1226.734089) NImag=1(-251.11 cm ⁻¹)			
6	3.749131	-1.042625	-0.167639	6	-3.658466	-0.009811	-0.171131
6	2.396596	-0.904145	0.185989	6	-2.358828	-0.024786	0.363478
6	2.090533	-0.386854	1.457506	6	-2.080726	-0.925260	1.405482
6	3.105501	-0.023828	2.341050	6	-3.066007	-1.783084	1.895488
6	4.446311	-0.167419	1.975105	6	-4.350317	-1.761361	1.349971
6	4.765085	-0.679458	0.716966	6	-4.642217	-0.870212	0.315305
6	1.342828	-1.325598	-0.779556	6	-1.278441	0.901773	-0.108575

6 0.171657 -1.951199 -0.271402	6 -0.465402 0.218471 -1.688473
7 -0.701157 -2.544035 -1.131347	6 -1.554213 -0.079252 -2.704177
8 -0.451362 -2.608932 -2.361647	6 -1.669196 2.249714 -0.399661
8 -1.820755 -2.995008 -0.682400	7 -0.753428 3.257236 -0.453410
6 0.827340 0.196766 -1.931452	8 -1.110639 4.424715 -0.705430
6 2.071212 0.567170 -2.720168	6 0.410299 -0.830330 -1.242544
6 0.204087 1.147067 -1.074688	6 -0.086122 -2.247644 -1.089652
6 1.006801 2.276225 -0.467165	6 0.277266 -3.097633 -2.328995
6 0.926140 3.557735 -1.327676	7 1.675422 -0.538505 -0.904735
7 -1.099630 1.023861 -0.752277	6 2.573307 -1.409408 -0.099280
6 -1.780114 1.866743 0.277871	6 3.857845 -0.566143 0.051665
6 -3.281016 1.570375 0.076277	6 3.879030 0.294140 -1.216520
6 -3.373055 1.192930 -1.406610	6 2.405618 0.651998 -1.425132
6 -2.113044 0.351532 -1.618925	6 2.004372 -1.847198 1.266566
6 -1.292214 1.641752 1.726951	8 1.464566 -0.914708 2.051719
8 -1.334986 0.411291 2.233686	8 2.070901 -3.009283 1.604038
8 -0.878452 2.580756 2.374967	8 0.502981 2.991659 -0.255721
1 -3.347623 2.089051 -2.038425	1 4.257535 -0.284027 -2.067814
1 -4.279895 0.630939 -1.645886	1 4.500888 1.186791 -1.109821
1 -3.589448 0.718863 0.689403	1 3.777541 0.078553 0.932327
1 -3.889076 2.435989 0.351555	1 4.736296 -1.205352 0.169134
1 -1.576060 2.919872 0.070179	1 2.780515 -2.335046 -0.644266
1 -1.761837 0.351800 -2.651569	1 2.147998 0.790729 -2.478478
1 -2.281625 -0.683505 -1.311723	1 2.106060 1.553788 -0.885901
1 2.866990 0.994549 -2.103262	1 -2.194507 0.803510 -2.806357
1 2.476347 -0.326614 -3.206559	1 -1.126374 -0.285752 -3.692794
1 1.840758 1.284793 -3.517472	1 -2.189514 -0.924503 -2.425387
1 1.739364 -1.825499 -1.662037	1 -2.674617 2.558125 -0.642626
1 -0.141678 -1.917735 0.759765	1 -0.404697 0.855332 0.533940
1 1.056028 -0.262611 1.763983	1 -1.086035 -0.948267 1.843856
1 2.845232 0.374282 3.317914	1 -2.827396 -2.465072 2.707135
1 5.235110 0.115858 2.666668	1 -5.118950 -2.428719 1.730219
1 5.804230 -0.802670 0.423678	1 -5.641012 -0.839263 -0.112044
1 4.005226 -1.454943 -1.140279	1 -3.908866 0.682490 -0.968954
1 0.148126 -0.425662 -2.510839	1 1.564562 0.041088 1.747831
1 2.049003 1.961554 -0.385319	1 0.069749 1.131412 -1.933265
1 0.676701 2.508474 0.546441	1 -1.169834 -2.232830 -0.961313
1 -0.103569 3.919638 -1.421247	1 0.325205 -2.729999 -0.200271
1 1.517634 4.351351 -0.860053	1 1.361061 -3.151796 -2.477634
1 1.316450 3.392662 -2.336493	1 -0.094578 -4.118311 -2.194779
1 -1.841407 -0.282735 1.703018	1 -0.169391 -2.689310 -3.240785
8 -2.794274 -1.524629 1.279864	8 1.731049 1.669691 1.680552
1 -2.436020 -2.122931 0.557235	1 1.192796 2.192954 1.020743
6 -3.193087 -2.326323 2.390748	6 1.655718 2.308696 2.955568
1 -4.082729 -2.918892 2.144039	1 2.114420 3.303799 2.917859
1 -2.392354 -3.005272 2.710748	1 0.618644 2.406693 3.300844
1 -3.433891 -1.652282 3.217056	1 2.206555 1.689234 3.668051
<i>s-si</i> Et = -1226.3634947 (-1226.7025774) (-1226.7299804) NImag=1(-330.74 cm ⁻¹)	<i>s-re</i> Et = -1226.3603215 (-1226.7002954) (-1226.7288495) NImag = 1(-346.73 cm ⁻¹)
6 0.846787 1.382767 0.417406	6 -0.572866 0.504071 -1.298017
6 -0.455996 1.685275 -0.062187	6 0.788305 0.912213 -1.124928
7 -1.542451 1.035683 0.411135	6 1.111910 2.389436 -1.047146
6 -1.567055 0.316449 1.717449	7 1.807809 0.034862 -1.067539
6 -3.070384 0.208321 2.075053	6 1.688910 -1.417749 -1.342871
6 -3.753828 1.277333 1.213584	6 3.147745 -1.935072 -1.301381
6 -2.926447 1.260160 -0.071886	6 3.996973 -0.692796 -1.589104
6 -0.854633 -1.056902 1.776171	6 3.228114 0.418516 -0.873989
8 -1.354699 -2.074671 1.086135	6 0.796293 -2.243615 -0.394708
8 0.111325 -1.199798 2.501391	8 0.996163 -2.157074 0.917871
1 -3.688301 2.262209 1.691792	8 -0.033479 -2.998785 -0.859682

1	-4.808843	1.057663	1.027710	1	4.036977	-0.492424	-2.666376
1	-3.451477	-0.781263	1.809586	1	5.022676	-0.785833	-1.221625
1	-3.224043	0.346529	3.148583	1	3.376618	-2.318152	-0.301552
1	-1.031934	0.933298	2.444863	1	3.295517	-2.749293	-2.015027
1	-2.999190	2.189386	-0.631597	1	1.249207	-1.551040	-2.336307
1	-3.219885	0.431097	-0.723011	1	3.424261	1.401262	-1.300623
1	-2.092946	-1.857163	0.438609	1	3.455124	0.443252	0.197211
6	1.611319	0.009979	-0.939618	1	1.683805	-1.494548	1.233175
6	0.731292	-1.066574	-1.186835	1	1.929404	2.559206	-0.346220
6	1.910497	2.468805	0.448677	1	0.243153	2.894136	-0.614373
1	1.647437	3.269226	1.152178	6	-1.402945	0.387206	0.548140
1	2.862097	2.046919	0.779132	1	-0.703530	-0.377948	0.866274
1	2.080445	2.934023	-0.528708	6	-1.296010	1.584637	1.308510
1	1.645643	0.748711	-1.737223	1	-0.702900	-0.544816	-1.555997
1	0.828423	-2.050068	-0.754279	7	-0.112884	1.904378	1.906471
6	2.932986	-0.324639	-0.340715	8	-0.013873	2.853698	2.708546
6	3.051719	-1.161245	0.783056	8	0.915095	1.197048	1.570371
6	4.309402	-1.488836	1.286670	6	-2.768144	-0.146058	0.264732
6	5.467130	-0.991127	0.682880	6	-2.941079	-1.532176	0.106629
6	5.360035	-0.153990	-0.428563	6	-4.205895	-2.072098	-0.124313
6	4.102743	0.180808	-0.931031	6	-5.323414	-1.240122	-0.207582
1	2.160210	-1.537682	1.277348	6	-5.165700	0.139702	-0.060792
1	4.384116	-2.133661	2.158158	6	-3.902170	0.680635	0.170203
1	6.445163	-1.250451	1.079370	1	-2.079917	-2.192453	0.161477
1	6.253748	0.239600	-0.905565	1	-4.315482	-3.147289	-0.237500
1	4.024060	0.828633	-1.800849	1	-6.309012	-1.661683	-0.386394
7	-0.347841	-0.902206	-2.000843	1	-6.028322	0.797800	-0.124702
8	-0.626617	0.235877	-2.469552	1	-3.800895	1.756424	0.277671
8	-1.073449	-1.924185	-2.268725	1	-2.102405	2.267194	1.527790
1	0.887133	0.731120	1.285313	6	-1.509206	1.407536	-2.087523
6	-0.647852	2.783376	-1.090437	1	-2.512915	0.976687	-2.097871
1	-1.400340	2.493057	-1.823156	1	-1.587308	2.411214	-1.656319
1	0.279837	2.882554	-1.657681	1	-1.190270	1.512973	-3.131739
6	-1.003454	4.140240	-0.449271	6	1.440515	3.020600	-2.415676
1	-1.111501	4.903793	-1.227122	1	0.606447	2.935105	-3.117255
1	-1.946543	4.096034	0.107523	1	1.661515	4.085208	-2.285410
1	-0.226205	4.475968	0.244213	1	2.314927	2.553354	-2.883429
1	-2.528489	-1.795323	-1.516085	1	2.123058	0.226194	2.239009
8	-3.218909	-1.835038	-0.788809	8	2.707923	-0.573832	2.190770
6	-3.883379	-3.095248	-0.893820	6	2.850612	-1.129625	3.498325
1	-3.170331	-3.928836	-0.874907	1	3.454769	-2.035919	3.406549
1	-4.561503	-3.187438	-0.040836	1	3.365083	-0.428489	4.166821
1	-4.471264	-3.149473	-1.818428	1	1.879614	-1.394681	3.936171

Table S43. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent Assisted Pathway (L_1C_1 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i>				<i>a-re</i>			
Et = -1342.0992523 (-1342.4814904)				Et = -1342.0963584 (-1342.4791526)			
(-1342.5049131)				(-1342.5047043)			
NImag=1(-282.04 cm ⁻¹)				NImag= 1(-283.98 cm ⁻¹)			
6	3.569125	-2.106277	0.141523	6	2.889401	-2.398640	-0.205551
6	2.454151	-1.340279	0.524277	6	2.136022	-1.353707	0.358559
6	2.667976	-0.204219	1.327317	6	2.825751	-0.279507	0.947801
6	3.954160	0.146061	1.731975	6	4.219740	-0.250751	0.973754
6	5.052897	-0.626581	1.345311	6	4.954138	-1.292909	0.405446
6	4.855939	-1.755116	0.548663	6	4.282875	-2.366457	-0.183945

6	1.102969	-1.766021	0.091092	6	0.646666	-1.359185	0.386857
6	0.001029	-1.572603	0.952871	6	-0.044349	-0.679029	-1.402445
7	-1.196088	-2.151800	0.664899	6	0.609754	-1.529999	-2.470501
8	-1.346897	-2.879612	-0.345016	6	-0.010656	-2.603870	0.582947
8	-2.206819	-1.905918	1.434975	7	-1.323606	-2.679135	0.930120
6	0.681425	-0.871948	-1.760100	8	-1.899408	-3.782035	1.013738
6	1.730073	-1.437824	-2.694970	6	0.185259	0.724688	-1.336968
6	0.598512	0.513823	-1.487467	6	1.491286	1.320800	-1.810911
6	1.808942	1.405057	-1.664004	6	1.375791	1.834371	-3.263658
6	1.849231	2.033791	-3.074915	7	-0.748888	1.543240	-0.818639
7	-0.557354	1.058310	-1.051077	6	-0.511288	2.955178	-0.422645
6	-0.696340	2.471084	-0.591014	6	-1.898781	3.442481	0.054054
6	-2.220459	2.665123	-0.431695	6	-2.879025	2.566422	-0.734378
6	-2.817922	1.680509	-1.444376	6	-2.194797	1.199346	-0.732080
6	-1.899715	0.465547	-1.321739	6	0.572481	3.154753	0.654815
6	0.108743	2.822901	0.679043	8	0.546087	2.361570	1.730092
8	-0.079455	2.093183	1.779961	8	1.407193	4.023185	0.526489
8	0.899541	3.742759	0.660761	8	-1.996895	-1.585640	1.153029
1	-2.776735	2.095686	-2.458707	1	-2.989366	2.937744	-1.760210
1	-3.851196	1.405508	-1.219957	1	-3.872285	2.523999	-0.279901
1	-2.539044	2.388865	0.577477	1	-2.012460	3.252864	1.126739
1	-2.499254	3.707126	-0.609319	1	-2.018557	4.514986	-0.117582
1	-0.311443	3.142509	-1.363382	1	-0.178182	3.535725	-1.287391
1	-1.853623	-0.132775	-2.233265	1	-2.482216	0.558057	-1.565462
1	-2.233314	-0.180077	-0.510221	1	-2.398594	0.652033	0.189991
1	2.745259	-1.100903	-2.465214	1	0.472824	-2.588084	-2.222315
1	1.725933	-2.531833	-2.639144	1	0.133332	-1.367768	-3.445791
1	1.519431	-1.175741	-3.740124	1	1.682034	-1.346814	-2.583087
1	1.077540	-2.707325	-0.451837	1	0.437645	-3.566937	0.390777
1	0.004662	-0.931261	1.819446	1	0.232183	-0.540780	0.963344
1	1.831271	0.418003	1.631788	1	2.265156	0.535532	1.398716
1	4.097405	1.028447	2.349362	1	4.729655	0.587059	1.441302
1	6.054193	-0.350014	1.663855	1	6.040339	-1.271385	0.423926
1	5.702154	-2.366523	0.247174	1	4.845251	-3.185071	-0.625062
1	3.420725	-2.994666	-0.466899	1	2.387418	-3.244740	-0.664333
1	-0.263400	-1.406237	-1.807105	1	-0.229431	1.730016	1.797480
1	2.711344	0.810366	-1.507428	1	-1.072790	-0.976325	-1.216274
1	1.835518	2.203317	-0.921012	1	2.269445	0.557519	-1.755094
1	0.969467	2.657904	-3.265030	1	1.819882	2.141944	-1.169591
1	2.735952	2.668692	-3.169780	1	0.617501	2.619260	-3.355961
1	1.892950	1.269681	-3.857000	1	2.334772	2.254552	-3.583178
1	-0.874895	1.477607	1.779677	1	1.109939	1.027667	-3.953595
8	-2.202344	0.644709	2.258111	8	-1.396529	0.707593	2.426677
1	-2.256525	-0.310141	1.983610	1	-1.560748	-0.187057	2.028627
6	-2.479659	0.745148	3.654627	6	-1.342636	0.587533	3.848813
1	-3.534504	0.525120	3.858939	1	-2.312081	0.268799	4.250079
1	-1.852158	0.064394	4.244044	1	-0.571331	-0.124621	4.168666
1	-2.265777	1.772901	3.958594	1	-1.098027	1.573889	4.250674
1	-3.722914	-1.793508	0.298931	1	-3.262850	-1.655245	-0.215046
8	-4.378257	-1.455124	-0.345030	8	-3.603204	-1.600636	-1.131758
6	-4.702192	-2.520733	-1.220656	6	-4.282953	-2.812963	-1.419090
1	-3.809765	-2.976211	-1.672402	1	-5.236196	-2.894383	-0.873293
1	-5.273784	-3.317313	-0.717245	1	-4.505773	-2.819758	-2.491325
1	-5.330846	-2.111800	-2.019241	1	-3.675051	-3.695041	-1.177575
<i>s-si</i>				<i>s-re</i>			
Et = -1342.0979429 (-1342.4796314)				Et = -1342.094229 (-1342.4763463)			
(-1342.5038768)				(-1342.5024566)			
NImag=1(-297.22 cm ⁻¹)				NImag = 1(-318.1 cm ⁻¹)			
6	1.078080	0.878369	1.250197	6	-0.954197	0.126923	1.432169
6	-0.323023	1.084823	1.191289	6	0.468823	0.045402	1.470416
7	-1.185165	0.045443	1.286072	6	1.130164	-1.218388	1.979090
6	-0.811828	-1.259374	1.910062	7	1.260257	1.077139	1.115065

6	-2.161442	-1.899512	2.316215	6	0.775385	2.447982	0.831327
6	-3.133110	-0.717218	2.395331	6	2.068488	3.281361	0.650743
6	-2.667730	0.178978	1.248799	6	3.140596	2.479854	1.397628
6	0.058189	-2.222904	1.071276	6	2.742350	1.030934	1.115633
8	-0.444861	-2.752756	-0.037732	6	-0.158573	2.618622	-0.383034
8	1.166074	-2.531028	1.467770	8	0.225227	2.134472	-1.564060
1	-3.030387	-0.194037	3.354111	8	-1.202237	3.227442	-0.263760
1	-4.177719	-1.020144	2.281781	1	3.094667	2.682586	2.474209
1	-2.494804	-2.600881	1.546398	1	4.153652	2.703428	1.052040
1	-2.060143	-2.453903	3.253127	1	2.324671	3.344178	-0.412074
1	-0.203952	-1.041258	2.792627	1	1.934587	4.299738	1.023711
1	-2.972154	1.215306	1.357049	1	0.192997	2.799574	1.688921
1	-3.042825	-0.177563	0.286004	1	3.108014	0.338283	1.871406
1	-1.336659	-2.396169	-0.337853	1	3.097392	0.697281	0.135044
6	1.699390	0.661961	-0.797382	1	1.090709	1.630265	-1.585646
6	0.846036	-0.195003	-1.521496	1	2.035922	-1.449179	1.414335
6	1.997402	1.977730	1.747777	1	0.448419	-2.051425	1.785723
1	1.854862	2.165850	2.820137	6	-1.556118	-0.688930	-0.430186
1	3.040433	1.683372	1.609095	1	-1.006289	0.078398	-0.961504
1	1.851544	2.930754	1.227798	6	-1.044881	-1.995714	-0.623661
1	1.525317	1.718850	-0.976395	1	-1.361179	1.116405	1.239361
1	1.052652	-1.230142	-1.744775	7	0.265232	-2.163338	-0.942983
6	3.124108	0.278103	-0.643307	8	0.743376	-3.311991	-1.156923
6	3.524444	-1.027067	-0.304830	8	1.016229	-1.125731	-0.969579
6	4.877650	-1.349291	-0.224624	6	-3.024314	-0.472870	-0.401288
6	5.854315	-0.383014	-0.480287	6	-3.534158	0.788896	-0.758412
6	5.468995	0.917332	-0.809341	6	-4.908060	1.022122	-0.780924
6	4.115811	1.245382	-0.882856	6	-5.801337	0.003903	-0.442627
1	2.780875	-1.783684	-0.072841	6	-5.309531	-1.251215	-0.077116
1	5.169680	-2.360729	0.044328	6	-3.936456	-1.486635	-0.053880
1	6.908070	-0.641086	-0.417582	1	-2.849747	1.593210	-1.014242
1	6.219862	1.677228	-1.008670	1	-5.279525	2.002944	-1.064771
1	3.819752	2.257981	-1.145713	1	-6.872481	0.186190	-0.461349
7	-0.349998	0.261307	-1.979592	1	-5.996249	-2.050065	0.189805
8	-0.712100	1.450593	-1.710070	1	-3.575180	-2.468335	0.236801
8	-1.095479	-0.501393	-2.679357	1	-1.597110	-2.916884	-0.519877
1	1.402244	-0.114774	1.545850	6	-1.774678	-0.655047	2.442846
6	-0.885582	2.487415	1.054007	1	-2.838798	-0.545259	2.220701
1	-1.759598	2.496716	0.400921	1	-1.545322	-1.725615	2.438141
1	-0.139021	3.105339	0.550996	1	-1.617577	-0.285807	3.464454
6	-1.229021	3.116124	2.420600	6	1.439777	-1.172978	3.490288
1	-1.610664	4.132257	2.274378	1	0.535873	-1.040629	4.092279
1	-1.999870	2.546157	2.951711	1	1.912712	-2.113194	3.791233
1	-0.352742	3.177248	3.074034	1	2.127962	-0.358530	3.744251
1	-2.270753	-1.319323	-1.772214	1	2.059112	-0.143635	-1.941207
8	-2.702568	-1.976226	-1.161897	8	2.429155	0.745546	-2.154597
6	-3.191591	-3.055445	-1.961261	6	2.560412	0.871327	-3.572375
1	-2.395546	-3.495825	-2.574342	1	2.947791	1.872585	-3.775931
1	-3.582569	-3.818242	-1.282821	1	3.267748	0.132061	-3.966804
1	-4.002946	-2.715502	-2.615902	1	1.595297	0.754831	-4.081783
1	-2.516224	1.667757	-1.652968	1	2.482925	-3.142249	-0.416190
8	-3.409867	1.903203	-1.320709	8	3.336023	-2.991684	0.044674
6	-4.024963	2.744023	-2.277597	6	4.256565	-2.533007	-0.923025
1	-4.166648	2.242608	-3.247671	1	5.216506	-2.375206	-0.418888
1	-5.012321	3.018935	-1.891558	1	4.418249	-3.263614	-1.732019
1	-3.457984	3.672024	-2.453852	1	3.952104	-1.578637	-1.382421

Table S44. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent Assisted Pathway (L_2C_1 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1457.8274386 (-1458.2525397) (-1458.2755193) NImag=1(-254.4 cm ⁻¹)				<i>a-re</i> Et = -1457.8272984 (-1458.2522985) (-1458.2770998) NImag= 1(-257.09 cm ⁻¹)			
6	-3.510352	1.697548	-1.379799	6	-1.863273	-3.417199	0.098910
6	-2.401321	1.310580	-0.605879	6	-1.491950	-2.181560	-0.462344
6	-2.575870	1.145707	0.782051	6	-2.340612	-1.601797	-1.423425
6	-3.818590	1.368227	1.369491	6	-3.518263	-2.238169	-1.812158
6	-4.911075	1.756671	0.588390	6	-3.876507	-3.461826	-1.243100
6	-4.753156	1.920892	-0.788617	6	-3.044616	-4.047989	-0.286115
6	-1.093870	1.116930	-1.262281	6	-0.228848	-1.491007	-0.113594
6	0.087963	1.452975	-0.571961	6	-0.586140	-0.383052	1.693792
7	1.277116	1.470300	-1.228521	6	-1.142809	-1.389467	2.673365
8	1.381465	1.135444	-2.429646	6	0.917720	-2.263939	0.173996
8	2.350121	1.809850	-0.565762	7	2.169684	-1.736012	0.172674
6	-0.979148	-0.950224	-1.929426	8	3.167022	-2.441107	0.424558
6	-2.117133	-1.045451	-2.920664	6	-1.351983	0.704885	1.214208
6	-0.957568	-1.698113	-0.734869	6	-2.862949	0.634736	1.176653
6	-2.243287	-2.231059	-0.139722	6	-3.480659	1.252917	2.450566
6	-2.551407	-3.658649	-0.643536	7	-0.747483	1.826624	0.768428
7	0.210127	-1.950599	-0.103225	6	-1.422601	2.901678	-0.002370
6	0.313881	-2.607811	1.230157	6	-0.321565	3.971078	-0.186104
6	1.825561	-2.875970	1.399031	6	0.597486	3.753734	1.021595
6	2.334153	-3.016968	-0.041295	6	0.630586	2.230741	1.154435
6	1.527467	-1.962743	-0.800283	6	-2.037837	2.452220	-1.343869
6	-0.308707	-1.805328	2.393915	8	-1.288144	1.723204	-2.174876
8	0.082742	-0.544847	2.581982	8	-3.173620	2.766912	-1.626920
8	-1.147447	-2.319941	3.104106	8	2.335277	-0.465020	-0.082442
1	2.120767	-4.019566	-0.431275	1	0.167270	4.207888	1.922219
1	3.405889	-2.825817	-0.134950	1	1.597217	4.170874	0.874609
1	2.314296	-2.021507	1.873333	1	0.233488	3.782351	-1.110612
1	1.995511	-3.762396	2.015774	1	-0.753640	4.973118	-0.244564
1	-0.235843	-3.553190	1.213572	1	-2.255896	3.309203	0.576775
1	1.373870	-2.217964	-1.850893	1	0.859725	1.877342	2.160237
1	2.027211	-0.994501	-0.758486	1	1.359726	1.793633	0.469164
1	-3.104895	-0.956878	-2.458925	1	-0.475916	-2.257057	2.726815
1	-2.030584	-0.249434	-3.668671	1	-1.190535	-0.966191	3.685545
1	-2.090569	-1.995395	-3.471229	1	-2.142181	-1.749086	2.413019
1	-1.072452	1.322160	-2.328660	1	0.897873	-3.311136	0.435686
1	0.133436	1.736046	0.468795	1	-0.046106	-0.589567	-0.684555
1	-1.743204	0.830149	1.404276	1	-2.067647	-0.652701	-1.878011
1	-3.933911	1.233990	2.441256	1	-4.154023	-1.775991	-2.562114
1	-5.878660	1.929762	1.051396	1	-4.795354	-3.957188	-1.544462
1	-5.595109	2.227967	-1.403039	1	-3.313730	-5.001810	0.159426
1	-3.388438	1.842026	-2.450157	1	-1.228421	-3.889838	0.841947
1	-0.017334	-0.740428	-2.387577	1	-0.325400	1.596654	-1.918084
1	-3.063339	-1.564270	-0.414968	1	0.469760	-0.183797	1.850198
1	-2.210239	-2.241354	0.950413	1	-3.168840	-0.409910	1.093135
1	-1.756793	-4.362019	-0.372224	1	-3.271251	1.144735	0.301749
1	-3.482711	-4.016433	-0.192898	1	-3.214938	2.310350	2.555331
1	-2.667077	-3.687432	-1.731419	1	-4.572162	1.184032	2.403018
1	0.917157	-0.261193	2.094405	1	-3.144771	0.732022	3.352407
8	2.400303	0.338969	1.762546	8	1.306349	1.299620	-1.899701
1	2.474041	0.873596	0.936493	1	1.638978	0.571002	-1.326205
6	2.932342	1.094474	2.861896	6	1.977927	1.224013	-3.168441

1 4.028896 1.085185 2.834770	1 3.033785 0.984028 -3.010998
1 2.567377 2.125735 2.842017	1 1.517688 0.466442 -3.816449
1 2.595859 0.604127 3.778911	1 1.883359 2.201471 -3.648143
1 3.715740 0.667624 -1.289357	1 2.863751 0.159063 1.654866
8 4.252295 -0.128757 -1.473614	8 2.760578 0.334799 2.609901
6 4.597770 -0.099997 -2.847457	6 3.770936 -0.388127 3.299748
1 3.717241 -0.000101 -3.497658	1 4.772105 0.037347 3.131869
1 5.294983 0.719273 -3.086525	1 3.547670 -0.321146 4.369190
1 5.100066 -1.045161 -3.079740	1 3.793366 -1.446740 3.008075
1 1.924049 3.214908 0.632848	1 4.051927 -0.285149 -0.946657
8 1.518387 3.673948 1.394891	8 4.721776 -0.053728 -1.619439
6 1.256417 5.017664 1.031310	6 5.369761 -1.252077 -2.007517
1 0.784400 5.501885 1.891496	1 4.684095 -1.974300 -2.478738
1 2.174338 5.574355 0.786878	1 6.137947 -0.984087 -2.740119
1 0.567982 5.094870 0.175496	1 5.858943 -1.756337 -1.161319
<i>s-si</i> Et = -1457.8221377 (-1458.2464624) (-1458.2759191) NImag=1(-280.8 cm ⁻¹)	<i>s-re</i> Et = -1457.8245758 (-1458.2494103) (-1458.2749937) NImag = 1(-298.78 cm ⁻¹)
6 1.991948 1.437022 -0.320064	6 0.481640 -1.040018 1.454469
6 0.736555 1.993379 -0.651134	6 -0.813367 -0.455756 1.478962
7 -0.257503 2.069512 0.266458	6 -1.020586 0.876380 2.169617
6 -0.007867 2.045753 1.738895	7 -1.892171 -1.068375 0.946113
6 -1.263981 2.702254 2.361535	6 -1.904787 -2.467138 0.459349
6 -1.903234 3.487978 1.210016	6 -3.392674 -2.744350 0.129318
6 -1.610493 2.612911 -0.008735	6 -4.162172 -1.725010 0.976830
6 0.314504 0.668523 2.368296	6 -3.258199 -0.492257 0.935781
8 -0.629924 -0.261681 2.418482	6 -1.007558 -2.789236 -0.751984
8 1.414621 0.473887 2.850090	8 -1.107039 -2.031496 -1.845195
1 -1.424001 4.467720 1.094810	8 -0.258791 -3.743961 -0.717532
1 -2.975394 3.647409 1.353367	1 -4.267687 -2.082014 2.008098
1 -1.956796 1.935985 2.717562	1 -5.161515 -1.516690 0.584855
1 -0.989866 3.326016 3.216446	1 -3.578782 -2.560458 -0.934069
1 0.885610 2.646732 1.929669	1 -3.654340 -3.784274 0.339679
1 -1.625259 3.172292 -0.940800	1 -1.547200 -3.122943 1.259700
1 -2.323594 1.786175 -0.081196	1 -3.408089 0.166295 1.789393
1 -1.496499 -0.053642 1.948725	1 -3.404566 0.087319 0.018309
6 1.769730 -0.658843 -0.886209	1 -1.742651 -1.259784 -1.799026
6 0.559641 -1.200877 -0.412092	1 -1.750967 1.490886 1.639265
6 3.249299 1.838472 -1.064105	1 -0.079427 1.430818 2.115778
1 3.543834 2.868349 -0.821805	6 1.471014 -0.211431 -0.293878
1 4.079005 1.190270 -0.772228	1 0.710399 -0.649194 -0.928423
1 3.149257 1.776244 -2.153044	6 1.462365 1.202050 -0.253016
1 1.755729 -0.383345 -1.936978	1 0.533706 -2.065258 1.098494
1 0.465878 -1.824357 0.463400	7 0.321840 1.868996 -0.554667
6 3.045552 -1.225933 -0.394354	8 0.285576 3.146809 -0.561722
6 3.261320 -1.536183 0.961060	8 -0.743078 1.208769 -0.785914
6 4.458709 -2.122169 1.364785	6 2.757655 -0.940858 -0.273430
6 5.458279 -2.410309 0.431248	6 2.808483 -2.247015 -0.795838
6 5.258510 -2.099090 -0.914540	6 4.008439 -2.954168 -0.829594
6 4.064965 -1.504851 -1.321877	6 5.180442 -2.375171 -0.338645
1 2.508721 -1.290532 1.704493	6 5.143443 -1.082460 0.189583
1 4.612705 -2.351174 2.415550	6 3.945714 -0.371869 0.225197
1 6.388988 -2.869906 0.752589	1 1.901599 -2.712402 -1.172310
1 6.029784 -2.318502 -1.647775	1 4.025966 -3.959494 -1.241250
1 3.909249 -1.270880 -2.372143	1 6.116389 -2.926742 -0.365718
7 -0.599018 -0.958651 -1.077817	1 6.050504 -0.623949 0.573993
8 -0.646188 -0.176842 -2.057333	1 3.940253 0.631613 0.639448
8 -1.680120 -1.561635 -0.684855	1 2.291713 1.837251 0.025063
1 2.163039 1.221264 0.729745	6 1.470840 -0.745952 2.566157
6 0.493461 2.549038 -2.042253	1 2.439209 -1.193989 2.330430
1 -0.514847 2.312934 -2.381810	1 1.632678 0.325641 2.721300

1	1.156686	2.031775	-2.738069	1	1.140674	-1.173807	3.521840
6	0.754858	4.066695	-2.120166	6	-1.422411	0.729016	3.652253
1	0.590420	4.422057	-3.142933	1	-0.657813	0.205557	4.233876
1	0.088151	4.631856	-1.458926	1	-1.561498	1.722077	4.091092
1	1.783950	4.312720	-1.840220	1	-2.362438	0.177675	3.769308
1	-2.665831	-0.607321	0.407745	1	-2.011421	0.781343	-1.915922
8	-2.949321	-0.055386	1.178346	8	-2.651853	0.112780	-2.249752
6	-3.972839	-0.772456	1.896723	6	-2.752942	0.226415	-3.671379
1	-3.751187	-1.843706	1.912762	1	-3.447717	-0.545837	-4.009955
1	-3.997634	-0.374413	2.914820	1	-3.148906	1.207955	-3.957886
1	-4.948395	-0.604499	1.425500	1	-1.783671	0.070321	-4.161747
1	-2.183739	-3.133886	0.324026	1	1.908105	3.914706	0.054326
8	-2.837181	-3.690806	0.784849	8	2.855104	4.037425	0.272980
6	-3.698763	-4.228739	-0.212301	6	3.478980	4.593529	-0.870599
1	-4.099441	-3.454903	-0.880827	1	4.549658	4.670679	-0.656012
1	-3.193121	-4.990903	-0.826323	1	3.353867	3.968207	-1.768638
1	-4.531263	-4.713637	0.307456	1	3.105358	5.603047	-1.102687
1	-3.012598	-1.485853	-2.055549	1	-1.479877	3.477788	0.110050
8	-3.891095	-1.457673	-2.482766	8	-2.366911	3.564345	0.517361
6	-4.334372	-0.119281	-2.429801	6	-3.308335	3.609798	-0.534799
1	-3.668911	0.568043	-2.976980	1	-3.145432	4.464648	-1.210691
1	-5.323415	-0.079292	-2.898394	1	-3.312953	2.690690	-1.142792
1	-4.434584	0.258219	-1.397208	1	-4.300800	3.723628	-0.085226

Table S45. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent Assisted Pathway (L_1C_2 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**/B3LYP/6-31G* and PCM-B3LYP/6-311G**/B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1457.829161 (-1458.253949) (-1458.2784126) NImag=1(-283.7 cm ⁻¹)				<i>a-si(II)</i> Et = -1457.8315884 (-1458.2569535) (-1458.2782318) NImag= 1(-283.5 cm ⁻¹)			
6	-4.032977	-1.539453	1.260146	6	3.930658	1.600326	-1.213142
6	-2.870753	-1.189831	0.551528	6	2.856291	0.697700	-1.127638
6	-2.896497	-1.269030	-0.853201	6	3.132458	-0.677860	-1.234551
6	-4.046762	-1.688756	-1.518550	6	4.437583	-1.127754	-1.422568
6	-5.193839	-2.036295	-0.800142	6	5.494884	-0.217984	-1.507753
6	-5.183278	-1.960189	0.593011	6	5.236785	1.149160	-1.402362
6	-1.654447	-0.789076	1.307437	6	1.478857	1.229533	-0.964092
6	-0.392417	-1.233857	0.834700	6	0.405648	0.574086	-1.615575
7	0.707102	-1.119897	1.619362	7	-0.798043	1.188675	-1.739246
8	0.658631	-0.581405	2.755671	8	-0.965668	2.373763	-1.299753
8	1.840378	-1.529584	1.154295	8	-1.757311	0.554724	-2.285276
6	-1.648272	1.230256	1.558989	6	1.057524	1.403764	1.046170
6	-2.971633	1.564096	2.218591	6	2.107660	2.349564	1.593599
6	-1.303736	1.748856	0.283623	6	0.964147	0.062848	1.497550
6	-2.373117	2.100445	-0.727716	6	2.181651	-0.654552	2.041730
6	-2.665184	3.616457	-0.737760	6	2.215079	-0.622774	3.585061
7	-0.008975	1.880698	-0.061726	7	-0.197429	-0.612745	1.404388
6	0.480900	2.097677	-1.456085	6	-0.329777	-2.089074	1.583189
6	1.871948	2.756903	-1.298310	6	-1.816321	-2.319622	1.951674
6	1.972155	3.131020	0.192503	6	-2.371325	-0.915374	2.251569
6	1.111095	2.077503	0.891166	6	-1.547558	-0.000628	1.343499
6	0.413194	0.752598	-2.226997	6	0.180809	-2.809981	0.312497
8	1.367226	-0.151170	-2.061915	8	-0.558310	-2.771951	-0.790828
8	-0.555557	0.519651	-2.928235	8	1.274252	-3.343645	0.315731
1	1.561189	4.131110	0.373194	1	-2.207075	-0.645138	3.301093
1	3.001107	3.109977	0.560564	1	-3.441315	-0.833848	2.043222

1	2.675338	2.067127	-1.563427	1	-2.365200	-2.768649	1.121220
1	1.956272	3.627465	-1.954492	1	-1.896548	-2.998182	2.805226
1	-0.207256	2.762128	-1.977724	1	0.325584	-2.416918	2.389246
1	0.721548	2.406139	1.854377	1	-1.522358	1.035594	1.678385
1	1.669066	1.152215	1.046104	1	-1.935168	-0.020452	0.320135
1	-3.835454	1.410138	1.565930	1	3.120065	1.936457	1.571807
1	-3.113957	0.934012	3.103212	1	2.117867	3.272426	1.003430
1	-2.991347	2.605904	2.564234	1	1.883691	2.638148	2.628936
1	-1.762763	-0.868330	2.387694	1	1.415444	2.313964	-1.012894
1	-0.205870	-1.613213	-0.157966	1	0.427176	-0.439843	-1.984680
1	-2.023691	-0.992070	-1.437731	1	2.333974	-1.409539	-1.158178
1	-4.044612	-1.743135	-2.603671	1	4.626377	-2.194777	-1.500322
1	-6.087841	-2.364682	-1.323275	1	6.511090	-0.573080	-1.656017
1	-6.067245	-2.233621	1.162870	1	6.049742	1.866824	-1.473503
1	-4.026399	-1.498876	2.346424	1	3.734805	2.667551	-1.148370
1	-0.826218	1.162139	2.267005	1	0.112364	1.900861	0.846723
1	-3.286261	1.559816	-0.473536	1	3.077356	-0.167258	1.653273
1	-2.088584	1.761670	-1.726045	1	2.220322	-1.685824	1.684648
1	-1.778760	4.200435	-1.010067	1	1.342766	-1.121543	4.022117
1	-3.450394	3.838235	-1.467826	1	3.111782	-1.135890	3.947549
1	-3.005562	3.966323	0.242385	1	2.235056	0.404014	3.964339
1	2.192412	0.089598	-1.529540	1	-1.491017	-2.401045	-0.720508
8	3.756295	0.170390	-1.051102	8	-3.121240	-2.242650	-1.015066
1	3.891948	0.142123	-0.067274	1	-3.554122	-1.354064	-0.940550
6	4.455628	-0.940227	-1.634442	6	-3.322646	-2.693131	-2.358728
1	5.532331	-0.858191	-1.438378	1	-4.390806	-2.833400	-2.563896
1	4.075985	-1.897085	-1.257365	1	-2.902983	-1.983392	-3.080763
1	4.293530	-0.890494	-2.714273	1	-2.811044	-3.653393	-2.460440
8	3.871308	0.108644	1.648872	8	-4.162782	0.228662	-1.186706
1	3.134180	-0.549796	1.735177	1	-3.383203	0.653021	-1.617452
6	4.937620	-0.251123	2.518057	6	-4.993717	1.202270	-0.561650
1	5.740448	0.478699	2.378420	1	-5.754479	0.663212	0.010990
1	4.618959	-0.222570	3.568410	1	-4.424091	1.850330	0.115511
1	5.331815	-1.252979	2.297561	1	-5.505235	1.823951	-1.310115
1	2.274147	-3.006958	0.071233	1	-2.054146	2.804039	0.066218
8	2.644387	-3.663485	-0.551909	8	-2.430931	3.038835	0.942647
6	1.696732	-3.843297	-1.589630	6	-2.446546	4.452427	1.046617
1	1.464413	-2.907073	-2.118911	1	-2.832506	4.704939	2.039279
1	2.129325	-4.545708	-2.309720	1	-1.441882	4.890138	0.946252
1	0.751806	-4.278482	-1.223933	1	-3.100906	4.919683	0.295523
<i>a-re</i> Et = -1457.8242756 (-1458.2489097) (-1458.277329) NImag=1(-284.69 cm ⁻¹)				<i>a-re(II)</i> Et = -1457.8282014 (-1458.253226) (-1458.2794377) NImag = 1(-291.6 cm ⁻¹)			
6	3.574238	-2.223027	-0.326484	6	-3.190709	-1.859992	0.335083
6	2.586256	-1.407183	0.251817	6	-1.908309	-1.394068	0.675358
6	2.881375	-0.762395	1.465988	6	-1.188755	-2.080370	1.669319
6	4.122481	-0.925562	2.080290	6	-1.730764	-3.199667	2.300055
6	5.095993	-1.733676	1.490405	6	-3.001320	-3.657310	1.946029
6	4.816632	-2.382000	0.285262	6	-3.728804	-2.982419	0.962996
6	1.229485	-1.233844	-0.338569	6	-1.303056	-0.184041	0.054537
6	1.310697	0.190940	-1.739078	6	-0.480170	-0.685479	-1.707843
6	2.493464	-0.119431	-2.634099	6	-1.562959	-1.347211	-2.534699
6	0.616763	-2.342561	-0.993618	6	-2.158165	0.915295	-0.240831
7	-0.733659	-2.397407	-1.120959	7	-1.619355	2.145272	-0.446474
8	-1.302480	-3.344774	-1.701345	8	-2.345632	3.165418	-0.612731
6	1.246919	1.411459	-1.001238	6	0.701906	-1.386727	-1.338061
6	2.501451	2.061063	-0.462552	6	0.684238	-2.883055	-1.124452
6	2.966026	3.214967	-1.378770	6	1.170414	-3.634601	-2.384034
7	0.060196	1.983981	-0.741645	7	1.851204	-0.716234	-1.129327
6	-0.182710	2.985048	0.335274	6	3.037956	-1.266388	-0.421269
6	-1.629417	3.480101	0.093560	6	4.124157	-0.177904	-0.593120

6	-1.969676	3.023552	-1.335020	6	3.673187	0.610977	-1.830093
6	-1.181845	1.722229	-1.502118	6	2.148323	0.618369	-1.706326
6	0.062645	2.354042	1.727206	6	2.743972	-1.619204	1.053047
8	-0.697736	1.327349	2.097719	8	2.225238	-0.670902	1.838276
8	0.972720	2.752530	2.426059	8	2.946680	-2.740347	1.467379
8	-1.435105	-1.425918	-0.603481	8	-0.338435	2.263661	-0.466479
1	-1.631396	3.760903	-2.072210	1	3.973404	0.097571	-2.751214
1	-3.042946	2.870251	-1.475572	1	4.086659	1.622890	-1.854876
1	-2.321743	3.013622	0.797450	1	4.138836	0.488583	0.272968
1	-1.692731	4.563753	0.220912	1	5.113917	-0.629070	-0.699327
1	0.535940	3.801450	0.244982	1	3.347949	-2.202414	-0.891966
1	-0.929121	1.512162	-2.544001	1	1.642658	0.714838	-2.669600
1	-1.702791	0.848499	-1.096827	1	1.778217	1.411795	-1.052018
1	2.422466	-1.155143	-2.982962	1	-2.450540	-0.705560	-2.547441
1	2.495241	0.521498	-3.525104	1	-1.242133	-1.475757	-3.576473
1	3.457824	-0.002809	-2.132649	1	-1.863389	-2.326850	-2.152782
1	1.138978	-3.168018	-1.453452	1	-3.235221	0.870983	-0.325171
1	0.541156	-0.720258	0.324890	1	-0.364999	0.117532	0.511996
1	2.126446	-0.139957	1.940768	1	-0.204541	-1.722294	1.961454
1	4.323912	-0.425031	3.023272	1	-1.159371	-3.710109	3.070426
1	6.063193	-1.862726	1.968464	1	-3.424764	-4.529757	2.436294
1	5.565365	-3.019617	-0.177111	1	-4.722449	-3.325886	0.687979
1	3.371887	-2.744481	-1.257108	1	-3.776081	-1.340794	-0.417569
1	-1.540297	1.156056	1.573400	1	2.290783	0.276906	1.511188
1	0.366224	-0.087914	-2.194112	1	-0.307819	0.349352	-1.986614
1	3.289029	1.308440	-0.400570	1	-0.334925	-3.192778	-0.887170
1	2.352584	2.436290	0.552401	1	1.300075	-3.175870	-0.271409
1	2.210897	4.005450	-1.449601	1	2.200893	-3.367767	-2.643161
1	3.881128	3.659624	-0.974892	1	1.138943	-4.713779	-2.203251
1	3.178848	2.862667	-2.393120	1	0.539029	-3.416668	-3.251032
8	-3.164164	0.908380	1.275326	8	2.703459	1.900247	1.554365
1	-3.492324	0.363256	0.515839	1	2.160912	2.655192	1.188671
6	-3.735250	0.365427	2.479152	6	3.043984	2.234068	2.900868
1	-4.821372	0.521439	2.489892	1	3.750323	3.073676	2.931305
1	-3.505797	-0.701337	2.569345	1	2.155581	2.497098	3.488178
1	-3.291463	0.909022	3.316918	1	3.516357	1.356818	3.349941
8	-3.982793	-0.757460	-0.729990	8	1.228126	3.985376	0.746019
1	-3.123946	-1.229305	-0.874048	1	0.454624	3.536664	0.314326
6	-4.630592	-0.539379	-1.972951	6	1.742410	4.953249	-0.159058
1	-4.038437	0.096013	-2.649809	1	2.022692	4.512920	-1.127218
1	-4.842643	-1.487008	-2.484923	1	1.012130	5.752375	-0.340073
1	-5.579845	-0.035602	-1.769005	1	2.634286	5.394538	0.295497
1	-2.093590	-2.183551	1.064876	1	-4.153481	2.721088	-0.825017
8	-2.493331	-2.680540	1.804241	8	-5.026564	2.276098	-0.782763
6	-3.383435	-3.626792	1.229181	6	-5.677680	2.749637	0.381332
1	-3.775412	-4.240500	2.046577	1	-5.919512	3.822705	0.320851
1	-4.229750	-3.144351	0.717786	1	-6.618023	2.197515	0.481467
1	-2.877156	-4.283205	0.507473	1	-5.086059	2.585688	1.295899
<i>s-si</i>				<i>s-re</i>			
Et = -1457.8291968 (-1458.252012) (-1458.278529)				Et = -1457.8315624 (-1458.2554245) (-1458.2791921)			
NImag = 1(-299.6 cm ⁻¹)				NImag = 1(-311.9 cm ⁻¹)			
6	-1.700399	-1.605968	-0.051071	6	0.994489	-0.293269	1.361628
6	-0.415782	-2.085824	-0.412824	6	-0.377888	0.077404	1.472534
7	0.636336	-2.018255	0.432293	6	-0.753106	1.530151	1.690280
6	0.503666	-1.721111	1.886399	7	-1.384309	-0.821272	1.442572
6	1.849006	-2.170697	2.502446	6	-1.196773	-2.288454	1.379736
6	2.417132	-3.171909	1.490471	6	-2.629993	-2.861289	1.485765
6	1.974652	-2.598097	0.143531	6	-3.408456	-1.770465	2.227620
6	0.147488	-0.259542	2.246871	6	-2.811436	-0.477343	1.669699
8	1.007631	0.702369	1.952275	6	-0.481142	-2.823569	0.126361
8	-0.896962	-0.025380	2.827032	8	-0.901705	-2.417262	-1.068228

1	1.978703	-4.166388	1.638102	8	0.425735	-3.623638	0.241937
1	3.504512	-3.264797	1.556008	1	-3.229656	-1.833722	3.307667
1	2.527935	-1.320218	2.593553	1	-4.486809	-1.829658	2.056684
1	1.696409	-2.593983	3.498728	1	-3.051731	-2.995093	0.485211
1	-0.326553	-2.317429	2.276756	1	-2.629655	-3.829587	1.992278
1	1.904418	-3.363405	-0.626601	1	-0.579037	-2.607008	2.226209
1	2.654843	-1.820575	-0.212500	1	-2.897484	0.352169	2.370254
1	1.847551	0.437903	1.455683	1	-3.282690	-0.178387	0.729541
6	-1.870325	0.367513	-0.873211	1	-1.700154	-1.809141	-1.075215
6	-0.781183	1.199788	-0.549809	1	-1.696784	1.747489	1.184377
6	-2.935792	-2.277589	-0.625504	1	0.000171	2.168049	1.220213
1	-3.042467	-3.305012	-0.253530	6	1.600704	-0.075285	-0.662471
1	-3.833085	-1.732558	-0.325156	1	0.847370	-0.772485	-1.007140
1	-2.931164	-2.325367	-1.720269	6	1.387151	1.259643	-1.082314
1	-1.854149	-0.032351	-1.883329	1	1.190989	-1.361925	1.406827
1	-0.795929	1.943752	0.231494	7	0.133086	1.675123	-1.380498
6	-3.206529	0.778904	-0.373222	8	-0.108064	2.885289	-1.684314
6	-3.409794	1.192687	0.955777	8	-0.826607	0.828006	-1.321390
6	-4.668306	1.621711	1.372672	6	2.978661	-0.625094	-0.642022
6	-5.741747	1.647734	0.478118	6	3.158072	-2.015917	-0.755686
6	-5.552112	1.233006	-0.840940	6	4.436906	-2.569376	-0.786408
6	-4.296101	0.795904	-1.260304	6	5.562573	-1.748271	-0.699409
1	-2.589641	1.155222	1.667714	6	5.399862	-0.366285	-0.578186
1	-4.811042	1.934666	2.403345	6	4.122878	0.190013	-0.547939
1	-6.720395	1.984994	0.808876	1	2.290366	-2.666713	-0.816015
1	-6.380367	1.249015	-1.544307	1	4.551565	-3.645863	-0.879932
1	-4.150687	0.479020	-2.290231	1	6.559437	-2.180439	-0.724679
7	0.403253	1.089673	-1.205109	1	6.269469	0.281808	-0.508914
8	0.566393	0.162949	-2.073008	1	4.019786	1.266357	-0.451506
8	1.355544	1.888663	-0.957729	1	2.129924	2.041502	-1.094008
1	-1.819788	-1.301567	0.984079	6	2.034271	0.539081	2.095664
6	-0.199386	-2.723129	-1.773198	1	3.036197	0.176379	1.853799
1	0.788898	-2.461395	-2.154520	1	1.990961	1.600283	1.829757
1	-0.906532	-2.272601	-2.473258	1	1.917838	0.457281	3.184209
6	-0.390963	-4.253762	-1.774117	6	-0.846411	1.927984	3.179352
1	-0.210548	-4.648896	-2.779523	1	0.115265	1.815027	3.686316
1	0.299413	-4.758613	-1.089285	1	-1.141078	2.979624	3.254944
1	-1.407020	-4.533449	-1.481428	1	-1.583537	1.332334	3.729683
8	3.354581	0.314244	0.840852	1	-3.377604	-0.277490	-1.495582
8	3.304647	-0.148745	-1.866003	8	-3.236304	-1.258888	-1.548059
1	3.336524	0.282293	-0.151446	8	-3.373925	1.439547	-1.238804
1	2.348124	0.023757	-2.050231	1	-2.384758	1.477337	-1.336142
6	4.095024	1.472041	1.256670	6	-3.411564	-1.662975	-2.905570
1	4.163737	1.435970	2.347168	1	-3.142205	-2.719991	-2.971434
1	5.110894	1.443674	0.842449	1	-4.456608	-1.544293	-3.221136
1	3.594647	2.401314	0.962830	1	-2.763579	-1.093870	-3.584647
6	4.063438	0.728064	-2.693466	6	-3.968105	2.411656	-2.090469
1	5.113453	0.637139	-2.400181	1	-5.052095	2.357661	-1.952719
1	3.975159	0.450927	-3.753252	1	-3.630181	3.423099	-1.831688
1	3.744264	1.770609	-2.571101	1	-3.738906	2.230719	-3.150247
1	1.562707	3.352856	0.195987	1	0.834230	3.830467	-0.418519
8	1.972509	4.155133	0.574088	8	1.353880	4.075172	0.378684
6	2.172525	5.058593	-0.494919	6	1.170474	5.456811	0.623045
1	2.796784	4.636923	-1.298756	1	1.743430	5.712044	1.520422
1	1.225611	5.397532	-0.945775	1	1.538861	6.082975	-0.204705
1	2.685868	5.937359	-0.090637	1	0.116161	5.719407	0.805453

Table S46. The B3LYP/6-31G* Optimized Geometries (in Cartesian coordinates), Total Electronic Energies (in hartree/particle), of Transition States of Different Stereochemical Modes of Addition of Enamine Derived from Proline and Pentanone (**2**) to Nitrostyrene Using Solvent Assisted Pathway (L_2C_1 model). The Values in the Parenthesis Implies Single-point Energies Evaluated at the B3LYP/6-311G**//B3LYP/6-31G* and PCM-B3LYP/6-311G**//B3LYP/6-31G* Level of Theory.

<i>a-si</i> Et = -1573.5638247 (-1574.0313014) (-1574.04 99657) NImag=1(-252.7 cm ⁻¹)				<i>a-re</i> Et = -1573.5594382 (-1574.0261836) (-1574.0488607) NImag= 1(-265.4 cm ⁻¹)			
6	4.043361	0.768634	-0.814243	6	3.991140	0.326254	-0.792261
6	2.835614	0.059286	-0.950362	6	2.796808	-0.406504	-0.920137
6	2.895434	-1.295347	-1.328874	6	2.876284	-1.745084	-1.347085
6	4.122116	-1.911462	-1.564513	6	4.106987	-2.332217	-1.635620
6	5.313517	-1.193170	-1.428453	6	5.284459	-1.594262	-1.497827
6	5.270042	0.149968	-1.052114	6	5.220957	-0.264065	-1.076389
6	1.564239	0.782681	-0.723344	6	1.462342	0.183490	-0.669300
6	0.417106	0.430657	-1.469310	6	1.044424	-0.037494	1.378472
7	-0.681731	1.221718	-1.509662	6	2.321763	0.319028	2.105501
8	-0.721836	2.350002	-0.892270	6	1.248570	1.575995	-0.845052
8	-1.702493	0.825750	-2.150222	7	-0.014702	2.035869	-0.980233
6	1.079670	0.672072	1.363956	8	-0.259014	3.298167	-0.972993
6	2.245565	1.351427	2.049005	6	0.486957	-1.342260	1.442903
6	0.792585	-0.699622	1.532600	6	1.369875	-2.554284	1.648505
6	1.885215	-1.672251	1.922806	6	1.392710	-2.976090	3.133907
6	1.880409	-1.952361	3.440836	7	-0.838572	-1.526164	1.309932
7	-0.453349	-1.177226	1.322748	6	-1.481474	-2.822951	0.961138
6	-0.793958	-2.624220	1.210179	6	-2.996413	-2.583693	1.178830
6	-2.304750	-2.710195	1.543614	6	-3.088122	-1.243567	1.931809
6	-2.668314	-1.321014	2.099766	6	-1.857711	-0.466951	1.460113
6	-1.699366	-0.378155	1.383305	6	-1.076584	-3.250440	-0.471971
6	-0.373214	-3.147647	-0.183572	8	-1.488504	-2.515131	-1.501629
8	-1.071022	-2.769605	-1.251440	8	-0.338164	-4.201776	-0.638752
8	0.623798	-3.834522	-0.301025	8	-0.990777	1.220403	-1.080052
1	-2.498244	-1.276083	3.181539	1	-3.036426	-1.401148	3.015339
1	-3.710952	-1.053579	1.908691	1	-4.015023	-0.708302	1.710586
1	-2.896132	-2.921135	0.650138	1	-3.518669	-2.500665	0.224283
1	-2.491686	-3.514516	2.260221	1	-3.440208	-3.413781	1.734692
1	-0.203642	-3.195087	1.926186	1	-1.104897	-3.607228	1.619668
1	-1.535703	0.560875	1.911005	1	-1.520348	0.284351	2.174755
1	-2.059531	-0.144388	0.375760	1	-2.012418	0.047469	0.504858
1	3.197503	0.830562	1.908293	1	2.678011	1.297732	1.767160
1	2.350682	2.368155	1.658000	1	2.148378	0.397679	3.187131
1	2.070242	1.437888	3.130042	1	3.129770	-0.399685	1.946094
1	1.697058	1.843275	-0.535957	1	2.001713	2.347080	-0.758920
1	0.291332	-0.503755	-1.995342	1	0.634984	-0.426394	-1.015772
1	1.989234	-1.885096	-1.425161	1	1.964448	-2.326108	-1.464935
1	4.144769	-2.958816	-1.852047	1	4.143616	-3.364162	-1.973409
1	6.267897	-1.678372	-1.614332	1	6.244720	-2.050005	-1.723411
1	6.189881	0.719174	-0.948128	1	6.131848	0.319786	-0.976088
1	4.011398	1.818228	-0.534517	1	3.962567	1.366180	-0.482007
1	0.224782	1.328807	1.236251	1	-2.211274	-1.834971	-1.339826
1	2.848293	-1.244644	1.639840	1	0.316782	0.767324	1.392021
1	1.793943	-2.607649	1.366308	1	2.383758	-2.311158	1.325367
1	0.936378	-2.401279	3.769512	1	1.043272	-3.393869	1.031589
1	2.688293	-2.646864	3.693479	1	0.392788	-3.245589	3.491415
1	2.029936	-1.033797	4.017327	1	2.042853	-3.847624	3.261503
1	-1.942317	-2.292747	-1.096536	1	1.771421	-2.173129	3.774476
8	-3.536540	-1.849406	-1.327164	8	-3.641953	-0.999419	-1.567162
1	-3.823697	-0.927781	-1.104492	1	-3.646667	-0.001961	-1.519386
6	-3.799148	-2.045752	-2.720158	6	-4.170581	-1.368486	-2.841433
1	-4.873776	-1.972015	-2.926215	1	-5.243453	-1.144680	-2.900454

1 -3.259916 -1.313614 -3.332242	1 -3.654416 -0.850118 -3.658810
1 -3.454992 -3.050396 -2.977739	1 -4.026209 -2.445369 -2.960956
8 -4.161305 0.758746 -1.086909	8 -3.555517 1.668977 -1.670052
1 -3.318851 1.110120 -1.456476	1 -2.579236 1.775867 -1.566490
6 -4.816539 1.741574 -0.289357	6 -4.203408 2.558583 -0.762400
1 -5.670781 1.254331 0.189788	1 -3.686577 2.599869 0.204192
1 -4.155033 2.149825 0.484661	1 -4.253037 3.573281 -1.180547
1 -5.195491 2.565069 -0.910811	1 -5.225933 2.198195 -0.612793
1 -1.720206 2.663329 0.617091	1 -1.239386 3.196298 0.672753
8 -2.017072 2.805727 1.539679	1 1.318077 4.326442 -0.946171
6 -1.702397 4.148522 1.891151	8 -1.548114 2.935749 1.565671
1 -1.861233 4.250092 2.969213	6 -1.475428 4.076726 2.404118
1 -0.657912 4.396775 1.661372	1 -2.130651 4.892002 2.061584
1 -2.356426 4.871950 1.380380	1 -1.806743 3.772048 3.401804
1 0.605803 3.534734 -0.409311	1 -0.451621 4.471803 2.488769
8 1.338267 4.060417 -0.026256	8 2.225592 4.638193 -0.742917
6 1.650804 5.113869 -0.924937	6 2.187435 5.229667 0.540245
1 0.807068 5.805720 -1.063921	1 3.207927 5.534210 0.794692
1 2.484499 5.675023 -0.492493	1 1.549119 6.126964 0.573499
1 1.960761 4.744388 -1.914006	1 1.835749 4.533749 1.320558
<i>s-si</i> Et = -1573.5618622 (-1574.0290521) (-1574.0503161) NImag=1(-245.86 cm ⁻¹)	<i>s-re</i> Et = -1573.5625697 (-1574.0285686) (-1574.0498774) NImag = 1(-285.7 cm ⁻¹)
6 4.383969 0.658468 -1.047950	6 1.490329 -0.699977 1.305427
6 3.336248 -0.255493 -0.836156	6 0.118524 -0.902990 1.611648
6 3.628232 -1.631707 -0.816618	6 -0.634336 0.126163 2.433706
6 4.933558 -2.073457 -1.019499	7 -0.560294 -2.012939 1.244759
6 5.965472 -1.157793 -1.245878	6 0.038770 -3.170299 0.542720
6 5.687122 0.209958 -1.258999	6 -1.122154 -4.184194 0.425519
6 1.963535 0.274364 -0.682229	6 -2.019824 -3.847239 1.619340
6 0.912358 -0.371356 -1.359253	6 -1.944788 -2.320844 1.690186
7 -0.292146 0.222142 -1.557584	6 0.654602 -2.878818 -0.836530
8 -1.189393 -0.407702 -2.202330	8 -0.066193 -2.208966 -1.728138
8 -0.528650 1.397213 -1.107236	8 1.769809 -3.286910 -1.097781
6 1.708856 0.088877 1.504742	1 -1.620930 -4.290636 2.539573
6 2.875218 0.889620 2.042650	1 -3.046998 -4.199412 1.490358
6 0.377644 0.523913 1.670179	1 -1.669602 -4.016365 -0.507671
6 0.080886 1.988469 1.921699	1 -0.749312 -5.211442 0.424919
6 0.001192 2.301935 3.429997	1 0.857630 -3.574550 1.148173
7 -0.649273 -0.362678 1.634910	1 -2.109927 -1.948370 2.700943
6 -0.480097 -1.811672 1.944837	1 -2.670573 -1.835639 1.032463
6 -1.867092 -2.272998 2.466644	1 -1.009553 -1.964231 -1.467304
6 -2.635082 -0.973666 2.755995	1 -1.681102 0.152556 2.122171
6 -2.082743 -0.003619 1.712479	1 -0.224161 1.117889 2.221719
6 0.056117 -2.678242 0.781463	6 1.629453 0.479147 -0.553248
8 1.171745 -3.159301 0.849899	1 1.065947 -0.276357 -1.085312
8 -0.716460 -2.905345 -0.275676	6 0.953704 1.705524 -0.381495
8 -2.514193 2.996528 0.061850	1 2.013223 -1.553996 0.882640
6 -3.818073 3.251339 -0.436527	7 -0.396114 1.748058 -0.443786
8 -3.307647 -2.395424 -0.523894	8 -1.013492 2.867489 -0.310759
6 -3.638829 -3.460192 -1.415384	8 -1.061109 0.677910 -0.617019
8 -3.768056 0.001644 -1.715451	6 3.085905 0.469767 -0.801623
6 -4.531707 0.123515 -2.911572	6 3.653959 -0.624924 -1.480684
1 -2.412485 -0.602714 3.763600	6 5.015694 -0.649717 -1.774846
1 -3.717467 -1.101566 2.669258	6 5.838926 0.411766 -1.394022
1 -2.397965 -2.844644 1.702989	6 5.290879 1.500982 -0.711941
1 -1.752486 -2.912151 3.346239	6 3.930165 1.530474 -0.417040
1 0.282559 -1.894972 2.722817	1 3.025120 -1.461425 -1.771663
1 -2.221733 1.043424 1.965699	1 5.432915 -1.502059 -2.303909
1 -2.548441 -0.161934 0.733213	1 6.900684 0.391275 -1.624894
1 -1.637525 -2.511509 -0.269766	1 5.924269 2.330627 -0.409706

1	2.916945	0.842090	3.139451	1	3.525023	2.383877	0.117987
1	3.816222	0.479305	1.668419	1	1.417736	2.653400	-0.159629
1	2.838360	1.946581	1.760626	6	2.343846	0.141046	2.237186
1	1.906275	1.353559	-0.607763	1	3.340069	0.276558	1.809145
1	0.971562	-1.373826	-1.753933	1	1.920413	1.134343	2.418956
1	2.841242	-2.351813	-0.611045	1	2.479945	-0.350602	3.209713
1	5.147036	-3.138647	-0.995811	6	-0.545199	-0.110316	3.957073
1	6.981410	-1.509432	-1.404915	1	0.486345	-0.053965	4.313643
1	6.483377	0.928876	-1.432238	1	-1.121132	0.661269	4.478241
1	4.163410	1.722910	-1.063728	1	-0.946326	-1.085614	4.254876
1	1.875421	-0.983722	1.497096	1	-3.094493	-1.129434	-1.035553
1	-0.842112	2.302340	1.435769	8	-2.648001	-1.738634	-1.673883
1	0.863827	2.588555	1.454190	8	-3.580650	0.106657	0.119701
1	-0.187527	3.370819	3.575054	1	-2.769055	0.625335	-0.090625
1	-0.812991	1.751258	3.915790	6	-2.809409	-1.162397	-2.978759
1	0.930599	2.049855	3.950967	1	-2.072585	-1.630543	-3.636401
1	-3.574149	-1.539674	-0.951964	1	-3.814211	-1.370478	-3.369225
1	-2.804387	0.074321	-1.946409	1	-2.644460	-0.079315	-2.956744
1	-3.269950	-4.388113	-0.971517	6	-4.738376	0.936091	-0.023408
1	-4.725994	-3.540235	-1.545719	1	-5.605578	0.275401	-0.114042
1	-3.165303	-3.330896	-2.397215	1	-4.875883	1.568142	0.864896
1	-5.580421	-0.050589	-2.654872	1	-4.660096	1.571366	-0.911008
1	-4.441539	1.130215	-3.340349	1	-0.258687	3.520336	1.275842
1	-4.227725	-0.609175	-3.671862	8	0.290703	3.579161	2.085380
1	-2.062635	2.370738	-0.536736	6	-0.211874	4.629340	2.891282
1	-3.797964	3.790270	-1.397141	1	0.405627	4.674549	3.793862
1	-4.395921	2.327160	-0.567889	1	-0.154111	5.608134	2.390049
1	-4.327242	3.886680	0.294982	1	-1.256264	4.464424	3.199947
1	0.630185	2.879842	-1.102463	1	-2.382528	2.706025	-1.601196
8	1.258726	3.583503	-0.849869	8	-3.044807	2.581884	-2.312819
6	0.553625	4.817119	-0.888943	6	-2.993694	3.717340	-3.155139
1	0.392452	5.166887	-1.921251	1	-3.253513	4.648718	-2.626949
1	-0.422330	4.746495	-0.389876	1	-2.004344	3.853151	-3.619320
1	1.164309	5.563956	-0.371380	1	-3.725386	3.566954	-3.955331