

Electronic Supplementary Information

Regulating and controlling the stepwise ESDPT channel of BP(OH)₂DCEt₂ with the
strategy of solvent polarity and the external electric field

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Table S1. Obtained absorption, fluorescence peaks (including the enol and keto forms) and error (ΔE) between calculated values and experimental values of BP(OH)₂DCEt₂ by using different functions and basis sets in cyclohexane (CYH).

	Abs. (nm)			DPT-Flu. (nm)		
	Exp. ^a	Cal.	ΔE (eV)	Exp. ^a	Cal.	ΔE (eV)
Cam-B3LYP/6-311g (d, p)	389	348	0.37	521	513	0.04
wB97XD/6-311g (d, p)	389	346	0.39	521	512	0.04
B3LYP/6-311g (d, p)	389	380	0.07	521	528	0.03
B3LYP/6-311+g(d, p)	389	381	0.06	521	529	0.04
B3LYP/6-311++g(d, p)	389	381	0.06	521	529	0.04

Table S2. Obtained absorption, fluorescence peaks (including the enol and keto forms) and error (ΔE) between calculated values and experimental values of BP(OH)₂DCEt₂ by using different functions and basis sets in dichloromethane (DCM).

	Abs. (nm)			DPT-Flu. (nm)		
	Exp. ^a	Cal.	ΔE (eV)	Exp. ^a	Cal.	ΔE (eV)
Cam-B3LYP/6-311g (d, p)	389	347	0.38	521	517	0.02
wB97XD/6-311g (d, p)	389	345	0.4	521	516	0.02
B3LYP/6-311g (d, p)	388	379	0.08	521	531	0.05
B3LYP/6-311+g(d, p)	389	380	0.07	521	531	0.05
B3LYP/6-311++g(d, p)	389	380	0.07	521	531	0.05

Table S3. Obtained absorption, fluorescence peaks (including the enol and keto forms) and error (ΔE) between calculated values and experimental values of BP(OH)₂DCEt₂ by using different functions and basis sets in acetonitrile (ACN).

	Abs. (nm)			DPT-Flu. (nm)		
	Exp. ^a	Cal.	ΔE (eV)	Exp. ^a	Cal.	ΔE (eV)
Cam-B3LYP/6-311g (d, p)	385	346	0.36	521	513	0.04

wB97XD/6-311g (d, p)	385	343	0.39	521	512	0.04
B3LYP/6-311g (d, p)	385	377	0.07	521	527	0.03
B3LYP/6-311+g(d, p)	385	378	0.06	521	528	0.03
B3LYP/6-311++g(d, p)	385	378	0.06	521	528	0.03

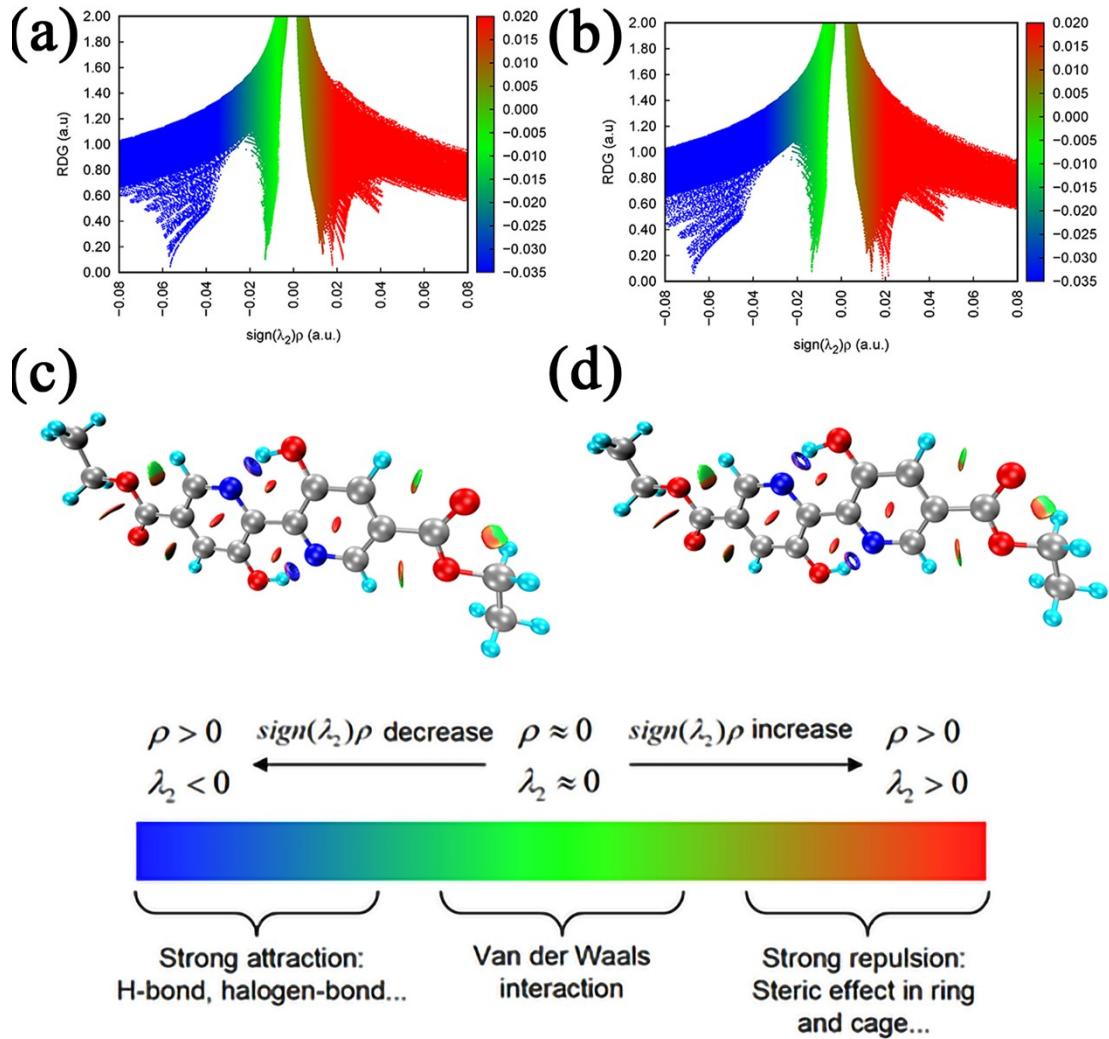


Figure S1. The scatter diagrams (top) of (a) S0 state and (b) S1 state, the RDG isosurfaces (bottom) of (c) S0 state and (d) S1 state in CYH solvent.

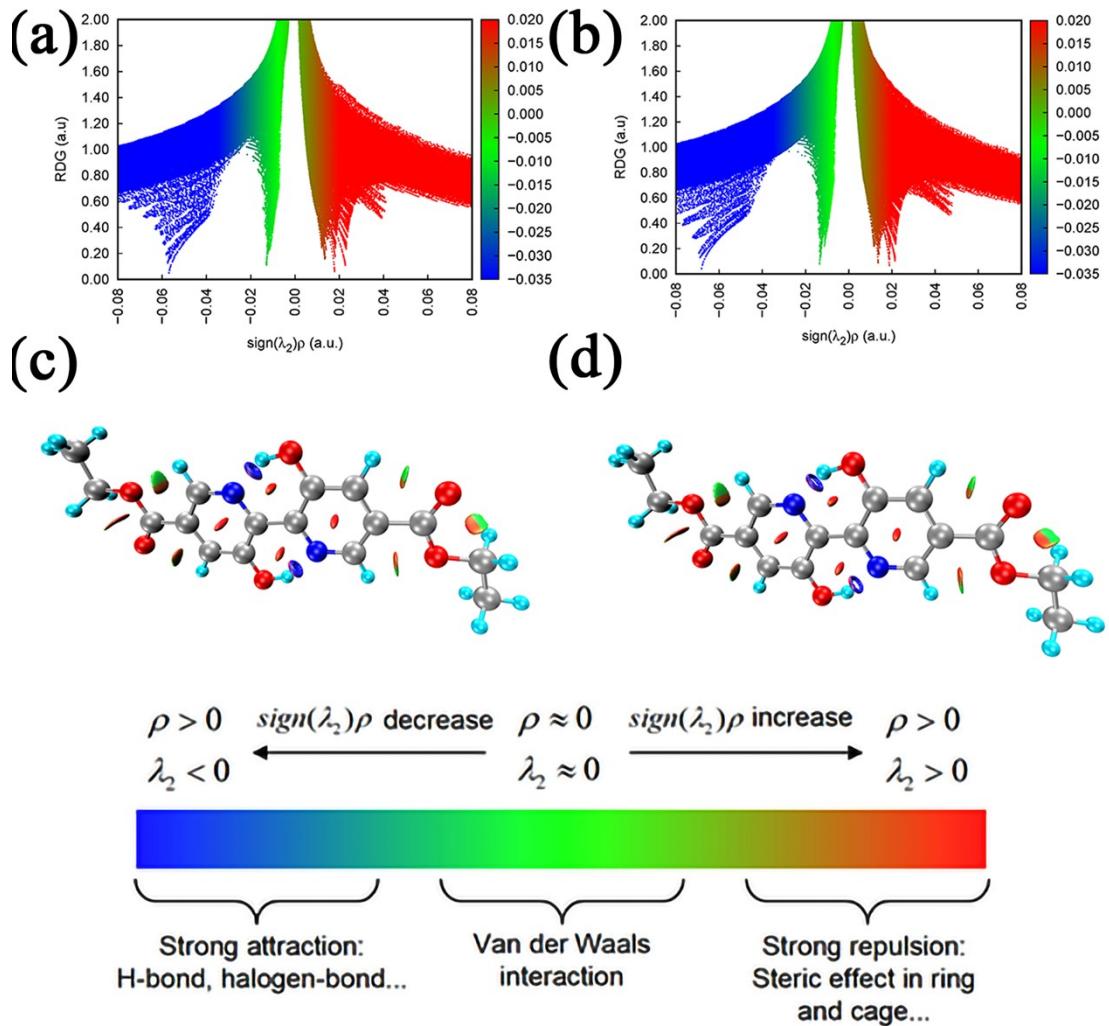


Figure S2. The scatter diagrams (top) of (a) S0 state and (b) S1 state, the RDG isosurfaces (bottom) of (c) S0 state and (d) S1 state in DCM solvent.

Table S4. Electronic excitation energy (nm), corresponding oscillator strengths (a.u.), and the transition percentage (%) for $\text{BP}(\text{OH})_2\text{DCEt}_2$ system in ACN, DCM and CYH solvents.

	Transition	λ	f	composition	CI(%)
ACN	$\text{S0} \rightarrow \text{S1}$	377	0.6526	$\text{H} \rightarrow \text{L}$	98.70%
	$\text{S0} \rightarrow \text{S2}$	316	0.0008	$\text{H-2} \rightarrow \text{L}$	97.60%
	$\text{S0} \rightarrow \text{S3}$	299	0.0000	$\text{H-1} \rightarrow \text{L}$	92.90%
DCM	$\text{S0} \rightarrow \text{S1}$	379	0.6675	$\text{H} \rightarrow \text{L}$	98.80%

	S0→S2	317	0.0008	H-2→L	97.60%
	S0→S3	300	0.0000	H-1→L	93.10%
CYH	S0→S1	380	0.6572	H→L	98.80%
	S0→S2	318	0.0008	H-2→L	97.50%
	S0→S3	300	0.0000	H-1→L	93.00%

Table S5. Electronic emission energy (nm), corresponding oscillator strengths (a.u.), and the transition percentage (%) for DPT system in ACN, DCM and CYH solvents.

	Transition	λ	f	composition	CI(%)
ACN	S0←S1	527	0.6040	H←L	99.90%
	S0←S2	429	0.0000	H-1←L	99.30%
	S0←S3	368	0.0000	H-2←L	88.00%
DCM	S0←S1	531	0.6141	H←L	99.90%
	S0←S2	429	0.0000	H-1←L	99.30%
	S0←S3	368	0.0000	H-2←L	88.50%
CYH	S0←S1	527	0.5939	H←L	99.80%
	S0←S2	436	0.0000	H-1←L	99.30%
	S0←S3	357	0.0000	H-3←L	98.30%

Table S6. Changes of dipole moment (D) for BP(OH)₂DCEt₂ molecule in CYH, DCM and ACN solvents of different states.

	CYH	DCM	ACN
N	0.00090	0.00052	0.00151
N*	0.00028	0.00030	0.00059
T1*/T2*	3.71037	4.39922	4.59632
T3*	0.00119	0.00136	0.00399

N represents enol form in S0 state;

T1 and T2 represent SPT form;

T3 represents DPT form;

The symbol "*" represents the form in S1 state

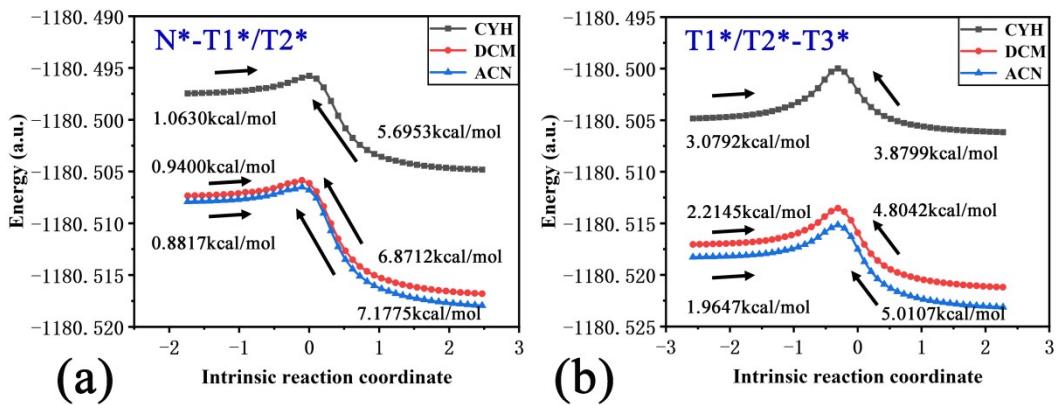


Figure S3. Comparison of S1 state Intrinsic reaction coordinates in different solvents.
(a) The first step N*-T1* or N*-T2* in stepwise reaction path; (b)The second step T1*-T3* or T2*-T3* in stepwise reaction path.

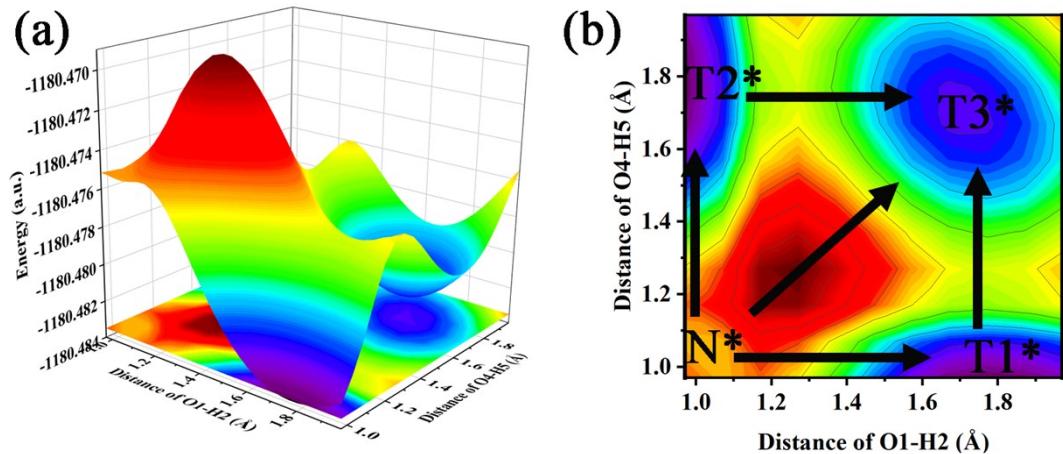


Figure S4. (a) S1 state PESs and (b) the S1 state projective plane for $\text{BP}(\text{OH})_2\text{DCEt}_2$ in the the gas phase.

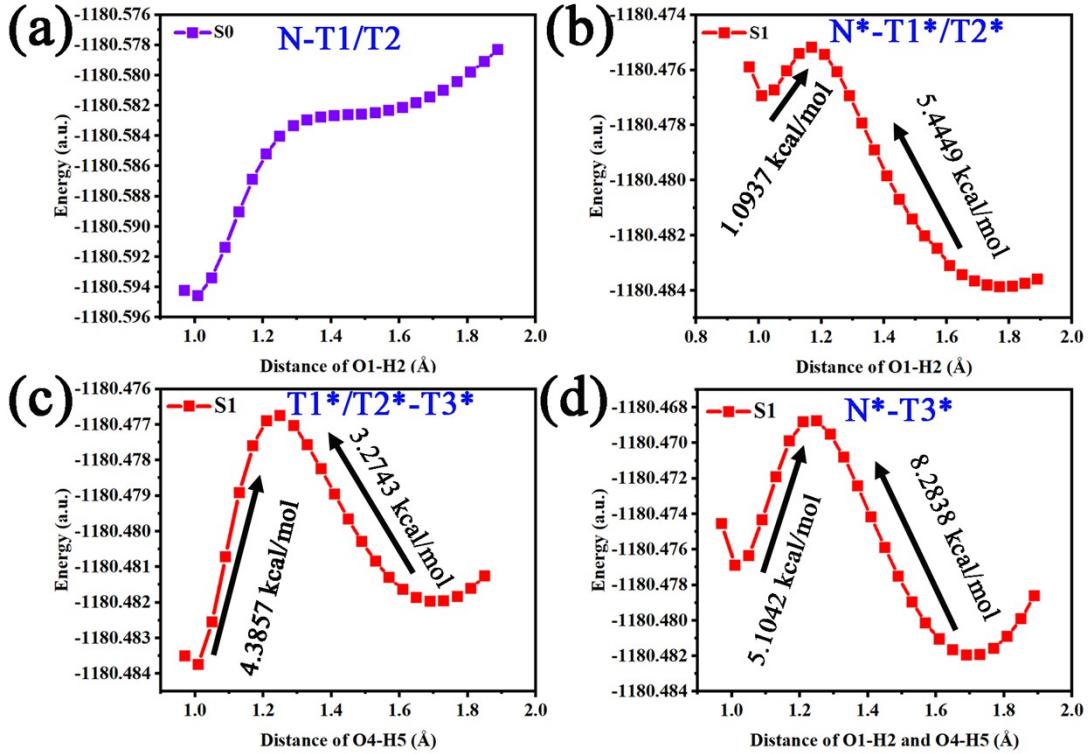


Figure S5. The potential energy curves of the gas phase. (a) The S0 state N-T1/T2 path; (b) The S1 state N*-T1*/T2* path; (c) The S1-state T1*/T2*-T3* path; (d) The S1-state N*-T3* path.

In Figure S4, the PESs of S1 state is symmetrical along with diagonal line. The PECs in S0 and S1 states in Figure S5 (a-d) indicate that the stepwise ESDPT process of BP(OH)₂DCET₂ occurs in S1 state.

Table S7. The Bond distances (Å) and bond angles (°) of double hydrogen bonds (O1-H2…N3 and O4-H5…N6) of BP(OH)₂DCET₂ under the application of the external electric field.

	E _x =0		E _x =10 ⁻⁴		E _x =5×10 ⁻⁴	
	S0	S1	S0	S1	S0	S1
O1-H2	0.9972	1.0195	0.9970	1.0200	0.9965	1.0217
H2…N3	1.6967	1.6225	1.6976	1.6205	1.6998	1.6141
δ(O1-H2…N3)	148.07	150.33	148.05	150.40	148.00	150.60
O4-H5	0.9972	1.0195	0.9974	1.0192	0.9980	1.0176
H5…N6	1.6967	1.6225	1.6961	1.6240	1.6940	1.6305

$\delta(\text{O}4\text{-H}5\cdots\text{N}6)$	148.07	150.33	148.08	150.28	148.12	150.10
	$E_x=10^{-3}$		$E_x=2\times 10^{-3}$		$E_x=3\times 10^{-3}$	
	S0	S1	S0	S1	S0	S1
O1-H2	0.9957	1.0237	0.9943	1.0289	0.9930	1.0333
H2…N3	1.7026	1.6066	1.7079	1.5895	1.7127	1.5755
$\delta(\text{O}1\text{-H}2\cdots\text{N}3)$	147.95	150.83	147.85	151.36	147.76	151.83
O4-H5	0.9988	1.0155	1.0005	1.0104	1.0022	1.0049
H5…N6	1.6910	1.6399	1.6850	1.6622	1.6783	1.6872
$\delta(\text{O}4\text{-H}5\cdots\text{N}6)$	148.18	149.82	148.30	149.20	148.45	148.54

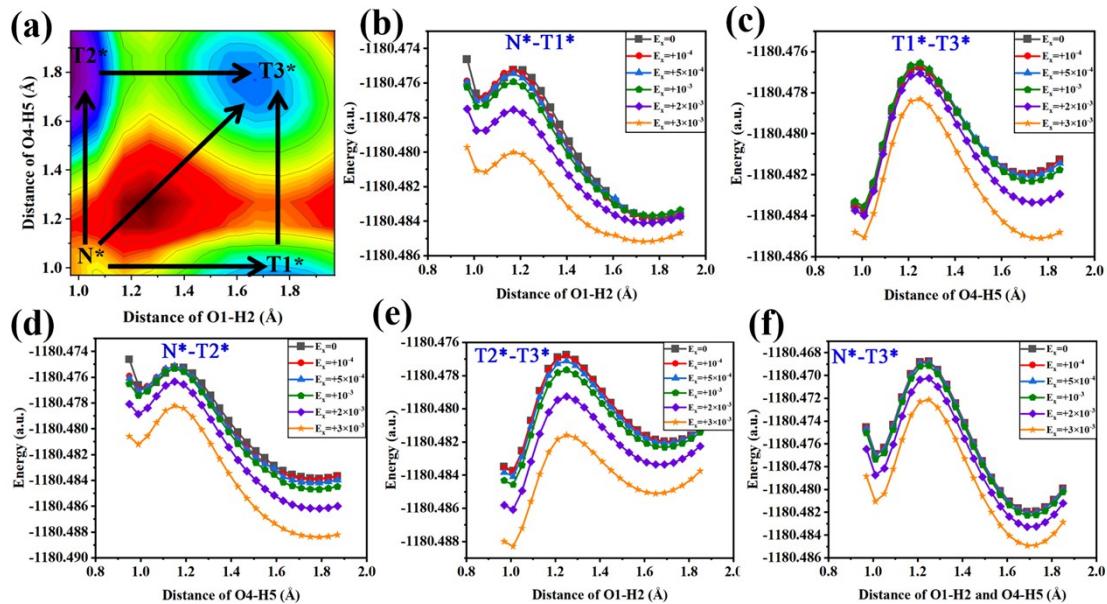


Figure S6. The potential energy curves of ESDPT path under the different external electric field. (a) The projective plane of the S1 state potential energy surface under $E_x = +3 \times 10^{-3}$ a.u.; (b) The S1 state N*- T1* path; (c) The S1 state T1*-T3* path; (d) The S1 state N*-T2* path; (e) The S1 state T2*-T3* path; (f) The S1 state N*-T3* path.

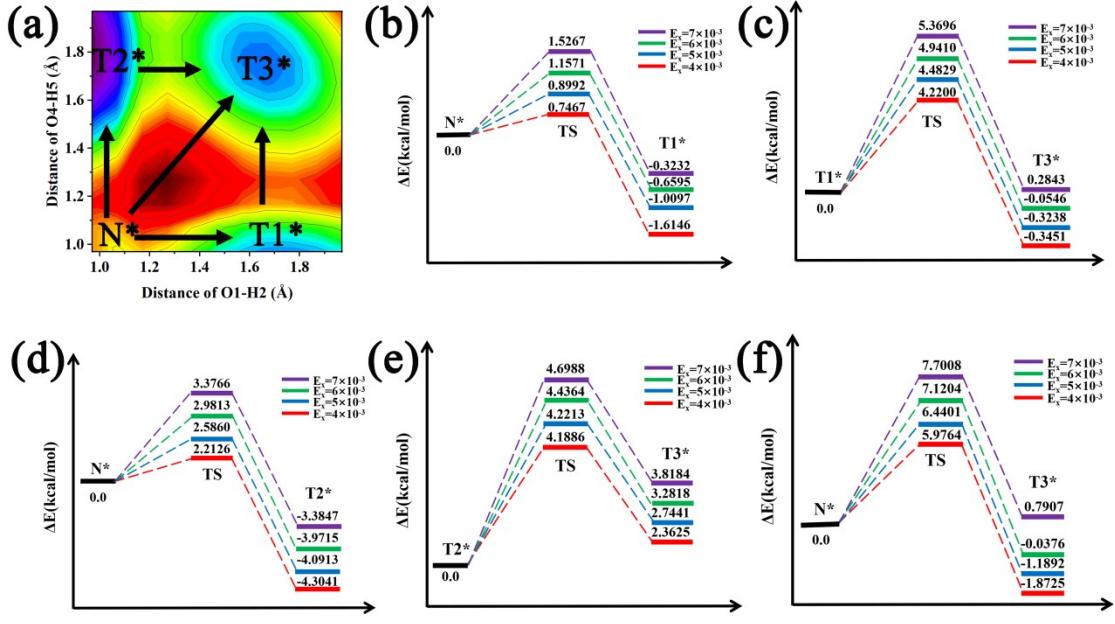


Figure S7. (a) The S1 state projective plane with $E_x=+3\times 10^{-3}$ a.u. Calculated energy barriers for (b) N*-T1* path, (c) T1*-T3* path, (d) N*-T2* path, (e) T2*-T3* path and (f) N*-T3* path from $E_x = +4\times 10^{-3}$ a.u. to $E_x = +7\times 10^{-3}$ a.u. TS stands for transition-state structure energy.

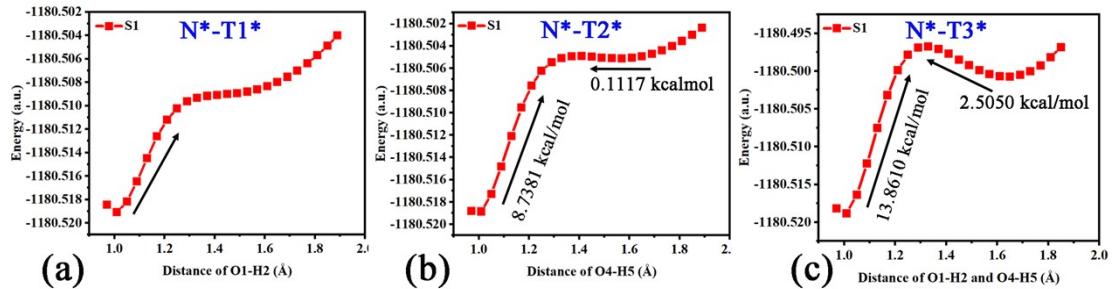


Figure S8. The potential energy curves with $E_x=+8\times 10^{-3}$ a.u. (a) The S1 state N*-T1* path; (b) The S1 state N*-T2* path; (d) The S1 state N*-T3* path.

As shown in Figure S7, the results indicate that the forward energy barriers increase with the increasing EEF. The ESDPT process is difficult to occur due to the excessively large strength of the EEF. It is worth noting in Figure S8 that there is no stable keto structure existing when the EEF is applied to $E_x = +8\times 10^{-3}$ a.u. Therefore, we only focus on the range of the EEF from $+1\times 10^{-4}$ a.u. to $+3\times 10^{-3}$ a.u. In addition, since the application of an external electric field less than $E_x=10^{-4}$ has no effect on the energy barriers of ESDPT, we do not present the data.

Table S8. The potential barriers (kcal/mol) of path: N*-T1*-T3*, path: N*-T2*-T3* and path: N*-T3* under $E_x = 0$ a.u., $E_x = +3 \times 10^{-3}$ a.u., $E_y = +3 \times 10^{-3}$ a.u., $E_z = +3 \times 10^{-3}$ a.u. of S1 state potential energy curves.

	$E_x=0$	$E_x=3 \times 10^{-3}$	$E_y=3 \times 10^{-3}$	$E_z=3 \times 10^{-3}$
Forward (kcal/mol)	N*-T1*	1.0937	0.7210	0.9099
	T1*-T3*	4.3856	4.2426	4.9573
	N*-T2*	1.0937	1.8750	1.3228
	T2*-T3*	4.3856	4.2068	4.1974
	N*-T3*	5.1042	5.6011	5.1255
Reverse (kcal/mol)	T1*-N*	5.4449	3.2461	5.7436
	T3*-T1*	3.2743	4.2696	3.3333
	T2*-N*	5.4449	6.3868	5.4775
	T3*-T2*	3.2743	2.2075	3.2423
	T3*-N*	8.2662	8.0327	8.2706

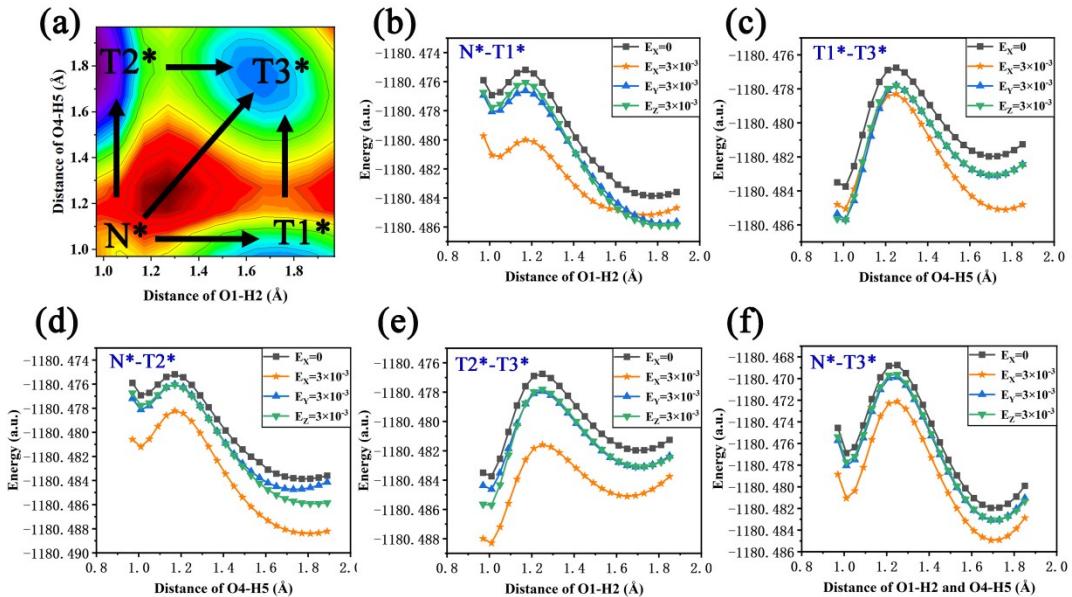


Figure S9. (a) The S1 state projective plane with $E_x = +3 \times 10^{-3}$ a.u. Calculated energy barriers for (b) N*-T1* path, (c) T1*-T3* path, (d) N*-T2* path, (e) T2*-T3* path and (f) N*-T3* path under $E_x = +3 \times 10^{-3}$ a.u., $E_y = +3 \times 10^{-3}$ a.u. and $E_z = +3 \times 10^{-3}$ a.u.

Cartesian coordinates of all structures

N represents the enol structure of BP(OH)₂DCEt₂ in S0 state, T1 and T2 represent the form of the single proton transfer (SPT) along hydrogen bonds O1-H2...N3 or O4-H5...N6, T3 represents the form of the double proton transfer (DPT). N*, T1*/T2* and T3* represent the structure in S1 state. TS* represents transition state structure in S1 state.

The geometric structure coordinates of N in cyclohexane.

C	0.71924400	0.15312400	-0.00017200
C	2.88079900	-0.71438300	-0.00002700
C	3.44376900	0.56721000	0.00002400
C	2.59745900	1.66913800	-0.00002100
C	1.21361000	1.48743000	-0.00011400
C	-0.71924400	-0.15312800	-0.00021500
C	-1.21361100	-1.48743300	-0.00018200
C	-2.59746100	-1.66913900	-0.00008100
C	-3.44377000	-0.56721100	-0.00010600
C	-2.88079800	0.71438200	-0.00019600
H	3.50358900	-1.59893000	0.00002300
H	3.00274700	2.67312500	0.00003700
H	-3.00274900	-2.67312700	0.00002600
H	-3.50358800	1.59892900	-0.00022700
O	-0.42192500	-2.56260600	-0.00026200
H	0.51718200	-2.22265100	-0.00039000
O	0.42192100	2.56260200	-0.00016900
H	-0.51718500	2.22264400	-0.00020000
N	1.56710100	-0.89790500	-0.00012600
N	-1.56710000	0.89790300	-0.00022900
C	-4.91831200	-0.79716300	0.00011700
C	4.91830900	0.79716600	0.00017800

O	5.43081000	1.89235800	0.00021700
O	-5.43081800	-1.89235400	0.00098600
C	-7.05706900	0.24196200	-0.00029600
C	-7.61444600	1.64761300	0.00070700
H	-7.36154900	-0.32415900	0.88324400
H	-7.36222000	-0.32312900	-0.88429400
H	-7.28825400	2.19613800	-0.88606200
H	-8.70707700	1.61062900	0.00061400
H	-7.28834200	2.19490600	0.88827500
C	7.05707100	-0.24195900	0.00030300
C	7.61445700	-1.64760900	-0.00009400
H	7.36174400	0.32330400	0.88434000
H	7.36202900	0.32399200	-0.88319800
H	7.28807600	-2.19530600	-0.88730200
H	8.70708800	-1.61061900	-0.00037800
H	7.28854400	-2.19572800	0.88703500
O	5.60800400	-0.35466700	0.00022100
O	-5.60800400	0.35466900	-0.00074400

The geometric structure coordinates of N* in cyclohexane.

C	-0.69568400	-0.14305800	-0.00007200
C	-2.87308700	0.70378000	-0.00031900
C	-3.45011200	-0.59061800	-0.00018600
C	-2.59452200	-1.69964100	0.00004800
C	-1.21433500	-1.50116700	0.00012200
C	0.69570500	0.14287100	-0.00005900
C	1.21427200	1.50100400	-0.00019300
C	2.59444400	1.69957000	-0.00011400
C	3.45010500	0.59060000	0.00005200
C	2.87316000	-0.70383400	0.00012900

H	-3.51063900	1.57902500	-0.00048800
H	-2.99227300	-2.70586200	0.00018200
H	2.99213000	2.70581700	-0.00019800
H	3.51076700	-1.57903900	0.00025200
O	0.39904700	2.54140100	-0.00041100
H	-0.55207600	2.16945000	-0.00053600
O	-0.39920000	-2.54163200	0.00039700
H	0.55195900	-2.16975700	0.00052200
N	-1.57091300	0.91566800	-0.00026800
N	1.57099900	-0.91580300	0.00008600
C	4.90787400	0.80403300	0.00013700
C	-4.90789500	-0.80395900	-0.00026600
O	-5.43741800	-1.89757900	0.00012100
O	5.43732800	1.89768500	-0.00001900
C	7.04195100	-0.24962600	0.00008100
C	7.59995800	-1.65573800	0.00032300
H	7.35155500	0.31577500	0.88305300
H	7.35155800	0.31545600	-0.88309800
H	7.27311200	-2.20389300	-0.88663000
H	8.69274300	-1.62033800	0.00030000
H	7.27313700	-2.20358300	0.88747700
C	-7.04190700	0.24983200	0.00010200
C	-7.59982700	1.65597900	0.00012700
H	-7.35139000	-0.31534200	0.88326400
H	-7.35170400	-0.31543800	-0.88288800
H	-7.27311700	2.20391200	-0.88701300
H	-8.69261400	1.62064600	0.00032300
H	-7.27280200	2.20400600	0.88709400
O	-5.59735800	0.36055200	-0.00016100
O	5.59740900	-0.36043500	0.00009600

The geometric structure coordinates of T1*/T2* in cyclohexane.

C	0.68771400	0.15262400	-0.00000800
C	2.92661100	-0.71225700	-0.00009400
C	3.46616600	0.57273200	0.00002900
C	2.58982900	1.67618000	0.00013800
C	1.20648400	1.47994100	0.00011900
C	-0.72920900	-0.16853800	-0.00003600
C	-1.22164900	-1.55633500	-0.00018200
C	-2.63016300	-1.71503800	-0.00019200
C	-3.47683200	-0.59890900	-0.00006300
C	-2.90308500	0.67678600	0.00007700
H	3.53639800	-1.60354800	-0.00017500
H	2.98392800	2.68342900	0.00023300
H	-3.03895600	-2.71719800	-0.00030300
H	-3.52049700	1.56491000	0.00017500
O	-0.41281100	-2.53808400	-0.00030300
H	1.15250700	-1.81547000	-0.00019700
O	0.40317600	2.53753200	0.00021100
H	-0.53922400	2.18357700	0.00016400
N	1.60795900	-0.87922100	-0.00010500
N	-1.57180800	0.87556800	0.00009000
C	-4.94453300	-0.80090900	-0.00007700
C	4.92624100	0.80173900	0.00004600
O	5.43802700	1.90123100	0.00019700
O	-5.47997900	-1.88844900	-0.00019300
C	-7.07064700	0.26715200	0.00009100
C	-7.61599300	1.67817600	0.00025800
H	-7.38441400	-0.29520200	0.88328500
H	-7.38444200	-0.29500200	-0.88322100

H	-7.28431100	2.22332800	-0.88672400
H	-8.70905200	1.65237600	0.00027300
H	-7.28428200	2.22313000	0.88735200
C	7.07048000	-0.23244300	-0.00000900
C	7.63826100	-1.63429600	-0.00009700
H	7.37393900	0.33479500	0.88355000
H	7.37397800	0.33492300	-0.88347200
H	7.31627500	-2.18459700	-0.88746100
H	8.73063400	-1.59021600	-0.00007200
H	7.31624000	-2.18472100	0.88717700
O	5.62454900	-0.35425600	-0.00005000
O	-5.62418900	0.36595400	0.00007900

The geometric structure coordinates of T3* in cyclohexane.

C	0.68461200	0.16878900	0.00004900
C	2.92953800	-0.69123900	0.00003900
C	3.47185500	0.59575800	0.00015000
C	2.61230400	1.70006700	0.00021200
C	1.19672700	1.54728000	0.00016600
C	-0.68458500	-0.16907100	-0.00001300
C	-1.19682500	-1.54752400	-0.00010800
C	-2.61242100	-1.70016900	-0.00014700
C	-3.47186900	-0.59578200	-0.00010300
C	-2.92943400	0.69116600	-0.00001900
H	3.53677000	-1.58391200	-0.00000700
H	3.01641800	2.70388200	0.00030200
H	-3.01663200	-2.70394500	-0.00021400
H	-3.53658200	1.58389500	0.00000600
O	-0.40292100	-2.53224000	-0.00015400
H	1.15817400	-1.80049800	-0.00008700

O	0.40270100	2.53190200	0.00023600
H	-1.15794700	1.80025500	0.00008400
N	1.60434200	-0.86123900	-0.00000400
N	-1.60422300	0.86103800	0.00001700
C	-4.93877400	-0.80775200	-0.00014600
C	4.93873900	0.80786100	0.00020700
O	5.46582100	1.89824900	0.00021300
O	-5.46595600	-1.89809000	-0.00016900
C	-7.07009400	0.25326800	-0.00001700
C	-7.61974100	1.66238600	0.00015500
H	-7.38079800	-0.31019500	0.88339800
H	-7.38085300	-0.30999800	-0.88354000
H	-7.29054100	2.20864000	-0.88707700
H	-8.71262900	1.63256200	0.00018600
H	-7.29048600	2.20844500	0.88748800
C	7.07015200	-0.25297400	-0.00008200
C	7.61992000	-1.66204400	-0.00033300
H	7.38088900	0.31028100	0.88345500
H	7.38078000	0.31055300	-0.88348400
H	7.29068900	-2.20809300	-0.88768000
H	8.71280600	-1.63212400	-0.00039200
H	7.29079300	-2.20836600	0.88688500
O	5.62282800	-0.35642300	-0.00000500
O	-5.62276200	0.35659100	-0.00005400

The geometric structure coordinates of TS* of N*-T1*/T2* path in cyclohexane.

C	-0.68335592	0.22215766	0.00000731
C	-2.85192892	-0.69488434	-0.00015769
C	-3.44440392	0.58633466	0.00006131
C	-2.60712692	1.71677766	0.00025731

C	-1.22375692	1.55319766	0.00023031
C	0.70994708	-0.07023634	-0.00002169
C	1.18264308	-1.45659434	-0.00023369
C	2.56532208	-1.68531134	-0.00025969
C	3.44162008	-0.59344534	-0.00007269
C	2.89769908	0.71127966	0.00013231
H	-3.46085892	-1.58906634	-0.00030969
H	-3.03133692	2.71207666	0.00042431
H	2.94133308	-2.69990534	-0.00041569
H	3.55610608	1.57060066	0.00027931
O	0.31729508	-2.42930634	-0.00038769
H	-0.72715292	-1.90458934	-0.00032969
O	-0.42834092	2.61718266	0.00041231
H	0.51804908	2.28037766	0.00036031
N	-1.54355992	-0.85704934	-0.00017969
N	1.59180908	0.96320166	0.00015431
C	4.89791408	-0.83696934	-0.00009069
C	-4.90524292	0.77271566	0.00009231
O	-5.45519992	1.85629966	0.00031631
O	5.40231908	-1.94115134	-0.00028769
C	7.05379708	0.17080666	0.00015431
C	7.64060008	1.56503066	0.00038831
H	7.35097508	-0.40048334	-0.88314669
H	7.35093108	-0.40076034	0.88329231
H	7.32546908	2.11957966	0.88756331
H	8.73235908	1.50666866	0.00041431
H	7.32552708	2.11985166	-0.88663769
C	-7.01976692	-0.32036834	-0.00013669
C	-7.55211892	-1.73645234	-0.00037669
H	-7.33992992	0.23909866	-0.88309769

H	-7.33992092	0.23879666	0.88301931
H	-7.21541192	-2.27860634	0.88660231
H	-8.64538392	-1.72097834	-0.00037269
H	-7.21541292	-2.27830834	-0.88753769
O	-5.57358992	-0.40483034	-0.00015969
O	5.61097308	0.31146666	0.00014131

The geometric structure coordinates of TS* of T1*/T2*-T3* path in cyclohexane.

C	-0.69178829	-0.06145966	0.00001432
C	-2.95180529	0.72917834	-0.00006768
C	-3.44593329	-0.57728566	0.00007432
C	-2.54626029	-1.65631566	0.00018832
C	-1.15660029	-1.43155666	0.00016032
C	0.69301871	0.25866734	-0.00002268
C	1.22573671	1.62572334	-0.00017668
C	2.64139771	1.74123134	-0.00019668
C	3.45969671	0.60240934	-0.00007368
C	2.86420871	-0.66630366	0.00007032
H	-3.59368029	1.59726634	-0.00015868
H	-2.91646829	-2.67281166	0.00029732
H	3.08101971	2.73015034	-0.00030768
H	3.45387771	-1.57213766	0.00016732
O	0.43635571	2.61766434	-0.00028368
H	-1.22291729	1.89250534	-0.00019168
O	-0.29561429	-2.40083166	0.00025732
H	0.78851571	-1.83062066	0.00019832
N	-1.63710729	0.94515734	-0.00009068
N	1.53477071	-0.81328166	0.00009032
C	4.93100771	0.76582734	-0.00009968
C	-4.90254629	-0.84558466	0.00010132

O	-5.38504029	-1.95705266	0.00023332
O	5.49513671	1.83886434	-0.00025168
C	7.02862771	-0.35849866	0.00004532
C	7.53769571	-1.78298166	0.00021332
H	7.35677971	0.19561234	0.88321932
H	7.35676371	0.19539834	-0.88326968
H	7.19251571	-2.31959966	-0.88683868
H	8.63106471	-1.78475566	0.00020632
H	7.19252671	-2.31938866	0.88739632
C	-7.07414529	0.12918834	-0.00003568
C	-7.68083629	1.51457334	-0.00017968
H	-7.36145729	-0.44627166	0.88356032
H	-7.36144229	-0.44644866	-0.88352168
H	-7.37474329	2.07373334	-0.88759668
H	-8.77148929	1.43953134	-0.00018568
H	-7.37476529	2.07390734	0.88713632
O	-5.63167529	0.29064034	-0.00003968
O	5.58005471	-0.41961566	0.00006632

The geometric structure coordinates of N in dichloromethane.

C	0.71916700	0.15295000	0.00013300
C	2.88143100	-0.71509700	0.00036400
C	3.44380100	0.56686800	0.00030000
C	2.59692100	1.66870700	0.00014600
C	1.21383900	1.48599800	0.00007300
C	-0.71916100	-0.15300100	0.00001300
C	-1.21385500	-1.48604300	0.00007600
C	-2.59694100	-1.66872600	0.00000500
C	-3.44380200	-0.56687300	-0.00016500
C	-2.88141100	0.71508200	-0.00025300

H	3.50216600	-1.60128900	0.00049000
H	3.00045300	2.67360100	0.00010000
H	-3.00049100	-2.67361300	0.00008200
H	-3.50213100	1.60128600	-0.00038100
O	-0.41988400	-2.56303100	0.00013500
H	0.51995900	-2.22146800	0.00004400
O	0.41984300	2.56296900	-0.00008000
H	-0.51999200	2.22138700	0.00001900
N	1.56707500	-0.89812400	0.00028700
N	-1.56705200	0.89808600	-0.00016700
C	-4.91854700	-0.79662400	-0.00014900
C	4.91854200	0.79664400	0.00043500
O	5.42814900	1.89587700	-0.00004700
O	-5.42817200	-1.89584800	0.00043700
C	-7.06153600	0.24251400	-0.00034900
C	-7.61268000	1.65001800	0.00041700
H	-7.36617400	-0.31987500	0.88520800
H	-7.36667400	-0.31908200	-0.88625100
H	-7.28575500	2.19659600	-0.88763900
H	-8.70536500	1.61322100	0.00042900
H	-7.28569000	2.19567800	0.88901300
C	7.06154700	-0.24245800	-0.00030500
C	7.61271300	-1.64995200	-0.00056400
H	7.36670000	0.31948800	0.88536500
H	7.36615000	0.31959300	-0.88609400
H	7.28529100	-2.19607400	-0.88871800
H	8.70539700	-1.61313000	-0.00115100
H	7.28624200	-2.19608100	0.88793500
O	5.60859900	-0.35018700	0.00022000
O	-5.60858600	0.35021900	-0.00070900

The geometric structure coordinates of N* in dichloromethane.

C	0.69252600	-0.14199400	0.00006200
C	2.87114000	0.70498400	0.00017000
C	3.44783800	-0.59188600	0.00001900
C	2.59183100	-1.70104300	-0.00006300
C	1.21233000	-1.50236400	-0.00001400
C	-0.69254500	0.14182800	0.00002400
C	-1.21227400	1.50221900	0.00008500
C	-2.59176200	1.70098000	0.00011700
C	-3.44783100	0.59187000	0.00003600
C	-2.87120500	-0.70503100	-0.00008200
H	3.50790200	1.58103900	0.00025200
H	2.98636500	-2.70889500	-0.00013500
H	-2.98623800	2.70885500	0.00017100
H	-3.50801500	-1.58105200	-0.00015100
O	-0.39583200	2.54144900	0.00004700
H	0.55667700	2.16828800	-0.00021900
O	0.39596700	-2.54165200	0.00002400
H	-0.55657300	-2.16855500	0.00027100
N	1.57094900	0.91783700	0.00018400
N	-1.57102500	-0.91795600	-0.00008100
C	-4.90475600	0.80377300	0.00003800
C	4.90477500	-0.80370800	-0.00002900
O	5.43383500	-1.90086200	-0.00014000
O	-5.43375500	1.90095700	0.00007800
C	-7.04326100	-0.25013800	-0.00015900
C	-7.59520600	-1.65814100	-0.00041200
H	-7.35356200	0.31157400	-0.88498800
H	-7.35368900	0.31130200	0.88479900

H	-7.26748400	-2.20454800	0.88762200
H	-8.68803000	-1.62316900	-0.00047500
H	-7.26737000	-2.20427300	-0.88857300
C	7.04322200	0.25032100	0.00004500
C	7.59509100	1.65835400	0.00016700
H	7.35360500	-0.31115700	-0.88490400
H	7.35363100	-0.31131900	0.88488200
H	7.26729500	2.20452400	0.88831900
H	8.68791600	1.62344300	0.00014700
H	7.26726800	2.20468700	-0.88787600
O	5.59539000	0.35609200	0.00007600
O	-5.59543400	-0.35598900	-0.00007000

The geometric structure coordinates of T1*/T2* in dichloromethane.

C	0.68191700	0.12533600	-0.00004800
C	2.93366500	-0.72104300	-0.00015300
C	3.46525100	0.56766000	-0.00006400
C	2.58053500	1.66477200	0.00003200
C	1.20082900	1.46014000	0.00003700
C	-0.72069800	-0.18894200	-0.00001700
C	-1.22875800	-1.57736500	-0.00006900
C	-2.64254100	-1.72544900	-0.00004100
C	-3.48009700	-0.60640500	0.00004100
C	-2.89281800	0.67078800	0.00009800
H	3.54506200	-1.61153600	-0.00023200
H	2.96471700	2.67624400	0.00009500
H	-3.05393200	-2.72704500	-0.00007500
H	-3.50644900	1.56219500	0.00017200
O	-0.43454600	-2.56427600	-0.00013500
H	1.19424100	-1.84207400	-0.00018700

O	0.39142300	2.51322900	0.00011300
H	-0.55322200	2.15055000	0.00009100
N	1.61637300	-0.89943200	-0.00014800
N	-1.56899400	0.86343200	0.00006800
C	-4.94734600	-0.79286400	0.00007400
C	4.92279200	0.80780400	-0.00007600
O	5.42299000	1.91572600	0.00004300
O	-5.49362100	-1.87898700	0.00004400
C	-7.06791000	0.29566800	0.00017700
C	-7.59497300	1.71316300	0.00024700
H	-7.38750800	-0.26019000	0.88517400
H	-7.38756400	-0.26012300	-0.88484100
H	-7.25775900	2.25365800	-0.88784700
H	-8.68825600	1.69730300	0.00028000
H	-7.25770400	2.25359100	0.88836000
C	7.08064800	-0.20604900	-0.00010500
C	7.65441300	-1.60494500	-0.00017200
H	7.37974200	0.36020600	0.88532600
H	7.37976800	0.36030100	-0.88546700
H	7.33585300	-2.15619100	-0.88849500
H	8.74643700	-1.55186100	-0.00015300
H	7.33582700	-2.15628600	0.88808300
O	5.63257200	-0.33597200	-0.00013500
O	-5.61761400	0.37648600	0.00013400

The geometric structure coordinates of T3* in dichloromethane.

C	0.68276800	0.16645000	-0.00000300
C	2.93271400	-0.69390300	-0.00029200
C	3.47814100	0.59235600	-0.00013700
C	2.61859300	1.69615600	0.00008000

C	1.20170300	1.54633900	0.00015200
C	-0.68274200	-0.16672700	0.00006400
C	-1.20180000	-1.54657800	-0.00008000
C	-2.61870700	-1.69625700	0.00001200
C	-3.47815500	-0.59238200	0.00023300
C	-2.93261300	0.69382900	0.00036200
H	3.53374400	-1.59107500	-0.00047300
H	3.02064100	2.70129500	0.00019500
H	-3.02084900	-2.70135800	-0.00008500
H	-3.53356400	1.59105400	0.00053900
O	-0.41554100	-2.53572400	-0.00026400
H	1.18102500	-1.80462500	-0.00033500
O	0.41532300	2.53539000	0.00033900
H	-1.18081900	1.80438700	0.00037800
N	1.60827800	-0.86221800	-0.00023100
N	-1.60816400	0.86202000	0.00028700
C	-4.94443700	-0.80391500	0.00034000
C	4.94440300	0.80402100	-0.00020800
O	5.46837200	1.89935000	0.00003700
O	-5.46850500	-1.89919700	-0.00001100
C	-7.08150300	0.25314200	0.00003300
C	-7.62699300	1.66334400	-0.00002700
H	-7.39205700	-0.30705600	0.88531800
H	-7.39180300	-0.30703200	-0.88535500
H	-7.29727100	2.20816300	-0.88825200
H	-8.71989400	1.63229900	-0.00018600
H	-7.29752900	2.20813900	0.88830800
C	7.08156100	-0.25285000	-0.00020700
C	7.62717300	-1.66300400	-0.00028100
H	7.39189900	0.30730100	0.88518300

H	7.39197900	0.30742600	-0.88549000
H	7.29766700	-2.20777900	-0.88861400
H	8.72007100	-1.63186400	-0.00023100
H	7.29758800	-2.20790200	0.88794600
O	5.63100700	-0.35349400	-0.00028300
O	-5.63094100	0.35366000	0.00024800

The geometric structure coordinates of TS* of N*-T1*/T2* path in dichloromethane.

C	0.67835141	0.21578615	-0.00000859
C	2.84983041	-0.69616885	-0.00009659
C	3.44111741	0.58743315	-0.00001159
C	2.60254841	1.71718715	0.00007541
C	1.22054241	1.55166815	0.00007841
C	-0.70574159	-0.07330285	-0.00000759
C	-1.18006159	-1.46056685	-0.00009559
C	-2.56345459	-1.68786285	-0.00008659
C	-3.43802759	-0.59541085	0.00000441
C	-2.89294359	0.71386415	0.00008541
H	3.45865341	-1.59070285	-0.00016559
H	3.02264941	2.71451715	0.00013941
H	-2.93762059	-2.70348485	-0.00014959
H	-3.55139859	1.57350215	0.00015541
O	-0.31649759	-2.43434585	-0.00017759
H	0.72582241	-1.91408285	-0.00015759
O	0.42096841	2.61161115	0.00015941
H	-0.52792259	2.26917315	0.00014941
N	1.54254941	-0.86227485	-0.00009459
N	-1.59226359	0.96528215	0.00007941
C	-4.89337459	-0.83589185	0.00001741
C	4.90133441	0.77396415	-0.00001359

O	5.44904741	1.86182715	0.00005741
O	-5.39921859	-1.94300485	-0.00005259
C	-7.05253159	0.17519315	0.00014441
C	-7.63093059	1.57247915	0.00026541
H	-7.35160659	-0.39214985	0.88514241
H	-7.35165359	-0.39201585	-0.88492259
H	-7.31360159	2.12488915	-0.88781059
H	-8.72287059	1.51674815	0.00029041
H	-7.31355459	2.12475515	0.88840841
C	7.02158541	-0.31650085	-0.00012259
C	7.54949041	-1.73370285	-0.00022259
H	7.34154341	0.23953815	0.88480641
H	7.34151441	0.23965115	-0.88499059
H	7.21254741	-2.27429585	-0.88837559
H	8.64276041	-1.71726985	-0.00024059
H	7.21257841	-2.27440985	0.88787341
O	5.57204041	-0.39759985	-0.00010459
O	-5.60652859	0.30893815	0.00011741

The geometric structure coordinates of TS* of T1*/T2*-T3* path in dichloromethane.

C	-0.68892567	-0.04678075	0.00001518
C	-2.95680067	0.73381125	-0.00009482
C	-3.44801067	-0.57383075	0.00001218
C	-2.54302267	-1.64958975	0.00012318
C	-1.15676767	-1.41830975	0.00012618
C	0.69010033	0.26932825	0.00000718
C	1.23109833	1.63834325	-0.00010282
C	2.65027433	1.74653525	-0.00010182
C	3.46360133	0.60644725	-0.00000182
C	2.85951633	-0.66212175	0.00010518

H	-3.59663267	1.60382325	-0.00018082
H	-2.90606067	-2.66897875	0.00020618
H	3.09043033	2.73570925	-0.00018082
H	3.44512133	-1.57102575	0.00018818
O	0.45279733	2.63466225	-0.00019082
H	-1.25379267	1.90802925	-0.00016382
O	-0.29460767	-2.39118975	0.00022518
H	0.77348933	-1.83350675	0.00018918
N	-1.64341467	0.95558125	-0.00008982
N	1.53381933	-0.80574075	0.00010818
C	4.93468833	0.76021025	-0.00000582
C	-4.90243967	-0.84835475	0.00000618
O	-5.37675867	-1.96673075	0.00009918
O	5.50480433	1.83374425	-0.00009182
C	7.03004333	-0.37729675	0.00011218
C	7.52398533	-1.80662675	0.00022418
H	7.36223333	0.17103625	0.88513118
H	7.36225533	0.17090525	-0.88498182
H	7.17446633	-2.33919475	-0.88790782
H	8.61733633	-1.81592275	0.00024018
H	7.17444033	-2.33906375	0.88842418
C	-7.08354067	0.11480925	-0.00014082
C	-7.68920467	1.50014125	-0.00031382
H	-7.36924967	-0.45815075	0.88535018
H	-7.36919667	-0.45834775	-0.88552282
H	-7.38340267	2.05849225	-0.88867382
H	-8.77969667	1.42193125	-0.00033682
H	-7.38345567	2.05869125	0.88793918
O	-5.63858067	0.27801325	-0.00011582
O	5.57800433	-0.42429975	0.00009818

The geometric structure coordinates of N in acetonitrile.

C	0.71905100	0.15298300	0.00002100
C	2.88141200	-0.71501200	-0.00003100
C	3.44352700	0.56697600	0.00002900
C	2.59645700	1.66870400	0.00009900
C	1.21351200	1.48595400	0.00009400
C	-0.71904500	-0.15304500	-0.00001200
C	-1.21353200	-1.48600900	-0.00002000
C	-2.59648100	-1.66872700	0.00003200
C	-3.44352900	-0.56698100	0.00000800
C	-2.88138800	0.71499400	-0.00003000
H	3.50168700	-1.60143200	-0.00009000
H	2.99975800	2.67365900	0.00015800
H	-2.99980400	-2.67367400	0.00007000
H	-3.50164500	1.60142800	-0.00004000
O	-0.41863800	-2.56278800	-0.00008800
H	0.52084700	-2.21909900	-0.00024100
O	0.41858800	2.56271300	0.00016900
H	-0.52088700	2.21900100	0.00025700
N	1.56692600	-0.89802300	-0.00002400
N	-1.56689900	0.89797800	-0.00002000
C	-4.91849600	-0.79654000	0.00012100
C	4.91849000	0.79656500	0.00003000
O	5.42750000	1.89651000	0.00020800
O	-5.42752900	-1.89647500	0.00091000
C	-7.06206800	0.24267400	-0.00034800
C	-7.61346800	1.64980000	-0.00001400
H	-7.36676400	-0.31864200	0.88573800
H	-7.36720000	-0.31834900	-0.88648200

H	-7.28741400	2.19616800	-0.88853700
H	-8.70606100	1.61112200	0.00002200
H	-7.28733000	2.19578400	0.88871400
C	7.06208200	-0.24260600	0.00002400
C	7.61351000	-1.64972100	-0.00032800
H	7.36696400	0.31834900	0.88628400
H	7.36700500	0.31879100	-0.88593700
H	7.28729600	-2.19571700	-0.88902100
H	8.70610200	-1.61101700	-0.00048200
H	7.28755700	-2.19608900	0.88823000
O	5.60822600	-0.34969400	-0.00002300
O	-5.60821000	0.34973200	-0.00072400

The geometric structure coordinates of N* in acetonitrile.

C	0.69153300	-0.14155700	0.00009300
C	2.87036700	0.70566000	0.00046500
C	3.44688900	-0.59156800	0.00023700
C	2.59093900	-1.70104100	-0.00002400
C	1.21148100	-1.50261700	-0.00006300
C	-0.69156600	0.14123500	-0.00000600
C	-1.21137200	1.50233700	0.00010000
C	-2.59080500	1.70091800	0.00013300
C	-3.44687500	0.59153700	-0.00001600
C	-2.87049100	-0.70575300	-0.00020800
H	3.50682700	1.58182600	0.00068600
H	2.98532900	-2.70887800	-0.00015400
H	-2.98508400	2.70879900	0.00023100
H	-3.50704500	-1.58185100	-0.00033900
O	-0.39424700	2.54070400	0.00007700
H	0.55865700	2.16515500	-0.00028300

O	0.39450800	-2.54109800	-0.00016400
H	-0.55845200	-2.16567300	0.00008700
N	1.57049600	0.91876000	0.00039500
N	-1.57064100	-0.91899200	-0.00019100
C	-4.90378200	0.80335400	0.00000400
C	4.90381800	-0.80323000	0.00030000
O	5.43221100	-1.90122100	-0.00018600
O	-5.43205700	1.90140200	0.00015100
C	-7.04330500	-0.24956900	-0.00012700
C	-7.59625800	-1.65692300	-0.00026900
H	-7.35354700	0.31144800	-0.88531400
H	-7.35352800	0.31126300	0.88518400
H	-7.26952800	-2.20351800	0.88802800
H	-8.68897900	-1.61963300	-0.00026600
H	-7.26952900	-2.20333700	-0.88867900
C	7.04322900	0.24992400	-0.00015300
C	7.59602900	1.65733800	-0.00024200
H	7.35331700	-0.31094200	-0.88549000
H	7.35372700	-0.31099300	0.88500800
H	7.26945400	2.20378000	0.88820600
H	8.68875400	1.62016600	-0.00050500
H	7.26902800	2.20383300	-0.88850100
O	5.59473200	0.35570900	0.00019200
O	-5.59481900	-0.35551100	-0.00015300

The geometric structure coordinates of T1*/T2* in acetonitrile.

C	0.68089800	0.11625600	0.00003200
C	2.93607100	-0.72412400	-0.00008400
C	3.46513400	0.56561800	0.00007100
C	2.57799700	1.66056600	0.00020100

C	1.19912600	1.45351000	0.00018200
C	-0.71836800	-0.19581300	0.00001200
C	-1.23134900	-1.58393300	-0.00011400
C	-2.64665900	-1.72750000	-0.00015400
C	-3.48124100	-0.60684900	-0.00006400
C	-2.88980900	0.66969700	0.00008000
H	3.54835600	-1.61388500	-0.00019100
H	2.95960800	2.67297600	0.00031700
H	-3.06013700	-2.72825100	-0.00025200
H	-3.50144300	1.56251300	0.00016900
O	-0.44203600	-2.57273500	-0.00019200
H	1.20721600	-1.85127600	-0.00018600
O	0.38768600	2.50461500	0.00030600
H	-0.55719100	2.13723900	0.00026100
N	1.61927300	-0.90620600	-0.00010000
N	-1.56722100	0.85935500	0.00011300
C	-4.94858500	-0.78920400	-0.00011400
C	4.92213400	0.80937500	0.00008900
O	5.41869800	1.91948700	0.00021600
O	-5.49723600	-1.87491500	-0.00018700
C	-7.06746000	0.30381800	-0.00002300
C	-7.59202200	1.72198900	0.00004500
H	-7.38836900	-0.25062700	0.88527100
H	-7.38836400	-0.25054100	-0.88537100
H	-7.25453300	2.26193600	-0.88829400
H	-8.68528500	1.70657300	0.00004400
H	-7.25453400	2.26185200	0.88843500
C	7.08362800	-0.19700800	-0.00005200
C	7.66255200	-1.59350600	-0.00016200
H	7.38089300	0.36950600	0.88574700

H	7.38087400	0.36963700	-0.88577400
H	7.34652200	-2.14585400	-0.88870400
H	8.75428000	-1.53480600	-0.00017100
H	7.34654400	-2.14598200	0.88830800
O	5.63530200	-0.33133800	-0.00004900
O	-5.61630000	0.38108400	-0.00001500

The geometric structure coordinates of T3* in acetonitrile.

C	0.68219400	0.16595800	0.00001800
C	2.93337000	-0.69457800	-0.00008400
C	3.47980500	0.59119600	0.00004600
C	2.62046300	1.69489400	0.00015700
C	1.20293500	1.54648900	0.00014100
C	-0.68220000	-0.16586200	0.00000700
C	-1.20289600	-1.54640600	-0.00009100
C	-2.62042400	-1.69485600	-0.00012200
C	-3.47979900	-0.59118600	-0.00005800
C	-2.93339900	0.69460600	0.00006200
H	3.53292100	-1.59262000	-0.00018400
H	3.02239300	2.70011400	0.00025400
H	-3.02232200	-2.70008900	-0.00019800
H	-3.53298000	1.59262800	0.00013300
O	-0.41907500	-2.53660000	-0.00012700
H	1.18703400	-1.80579900	-0.00018000
O	0.41916000	2.53672600	0.00023800
H	-1.18707500	1.80587900	0.00016300
N	1.60912700	-0.86241500	-0.00009900
N	-1.60916300	0.86248200	0.00009500
C	-4.94603000	-0.80259800	-0.00011200
C	4.94604100	0.80256400	0.00005800

O	5.46919300	1.89897000	0.00018100
O	-5.46915100	-1.89901900	-0.00015000
C	-7.08428500	0.25267800	0.00000300
C	-7.63124000	1.66203500	0.00006900
H	-7.39436400	-0.30701200	0.88566800
H	-7.39437400	-0.30693400	-0.88570900
H	-7.30281200	2.20720800	-0.88841600
H	-8.72404400	1.62825600	0.00008000
H	-7.30279300	2.20713200	0.88859400
C	7.08426100	-0.25278600	-0.00003700
C	7.63116500	-1.66216400	-0.00012900
H	7.39436100	0.30679500	0.88568900
H	7.39436700	0.30691200	-0.88568800
H	7.30270800	-2.20722900	-0.88867000
H	8.72397000	-1.62842300	-0.00012400
H	7.30270500	-2.20734400	0.88834100
O	5.63304100	-0.35381100	-0.00005100
O	-5.63306800	0.35375200	-0.00000200

The geometric structure coordinates of TS* of N*-T1*/T2* path in acetonitrile.

C	0.67734070	0.21349285	-0.00000156
C	2.84933170	-0.69681015	-0.00005456
C	3.44007770	0.58737185	0.00003944
C	2.60120070	1.71681185	0.00011044
C	1.21945770	1.55086585	0.00009144
C	-0.70441230	-0.07464015	-0.00001856
C	-1.17935030	-1.46202215	-0.00010956
C	-2.56290630	-1.68848415	-0.00012156
C	-3.43693030	-0.59553415	-0.00004656
C	-2.89140830	0.71435585	0.00004044

H	3.45846670	-1.59106015	-0.00011456
H	3.02055170	2.71443685	0.00017944
H	-2.93722630	-2.70406715	-0.00018856
H	-3.54981830	1.57396585	0.00010144
O	-0.31635730	-2.43623315	-0.00017456
H	0.72446570	-1.91720615	-0.00014356
O	0.41826270	2.60905885	0.00015744
H	-0.53069930	2.26293485	0.00013544
N	1.54240170	-0.86423815	-0.00007256
N	-1.59178230	0.96545585	0.00005344
C	-4.89227830	-0.83492315	-0.00005656
C	4.90033570	0.77445985	0.00006244
O	5.44680870	1.86344185	0.00013944
O	-5.39852630	-1.94249215	-0.00012956
C	-7.05173730	0.17663885	0.00002844
C	-7.63030530	1.57361685	0.00011344
H	-7.35109330	-0.38988415	0.88537044
H	-7.35110730	-0.38978215	-0.88537256
H	-7.31362930	2.12602485	-0.88821656
H	-8.72214330	1.51627385	0.00011944
H	-7.31361330	2.12592385	0.88849944
C	7.02190470	-0.31459115	-0.00000056
C	7.55078170	-1.73117915	-0.00007756
H	7.34162770	0.24083585	0.88527544
H	7.34163170	0.24093185	-0.88521556
H	7.21486770	-2.27202515	-0.88847356
H	8.64398870	-1.71251015	-0.00007556
H	7.21486570	-2.27212115	0.88826044
O	5.57166670	-0.39587615	-0.00000956
O	-5.60506930	0.30962285	0.00002544

The geometric structure coordinates of TS* of T1*/T2*-T3* path in acetonitrile.

C	0.68832855	-0.04162409	-0.00001282
C	2.95836955	0.73548391	0.00004118
C	3.44858555	-0.57247909	-0.00002982
C	2.54204155	-1.64701009	-0.00009082
C	1.15659355	-1.41389609	-0.00008282
C	-0.68919845	0.27309591	-0.00000282
C	-1.23300945	1.64239791	0.00006918
C	-2.65333645	1.74748191	0.00008618
C	-3.46491545	0.60665891	0.00003118
C	-2.85790345	-0.66120809	-0.00004782
H	3.59806755	1.60557991	0.00009318
H	2.90281355	-2.66723609	-0.00014382
H	-3.09440245	2.73627391	0.00014218
H	-3.44192145	-1.57112809	-0.00009982
O	-0.45853245	2.64018191	0.00011318
H	1.26359155	1.91361891	0.00009518
O	0.29445555	-2.38762109	-0.00013582
H	-0.76856045	-1.83310909	-0.00010882
N	1.64547255	0.95931291	0.00004818
N	-1.53298845	-0.80322009	-0.00006282
C	-4.93606845	0.75774291	0.00005118
C	4.90258555	-0.84885909	-0.00003982
O	5.37464155	-1.96883509	-0.00010082
O	-5.50758545	1.83125891	0.00011718
C	-7.03040045	-0.38281109	-0.00000282
C	-7.52237545	-1.81258909	-0.00007482
H	-7.36357845	0.16418691	-0.88536282
H	-7.36357245	0.16409591	0.88541618

H	-7.17270645	-2.34468609	0.88829518
H	-8.61569445	-1.82204909	-0.00007282
H	-7.17270945	-2.34459509	-0.88849982
C	7.08599455	0.10959291	0.00002018
C	7.69472555	1.49333091	0.00008818
H	7.37066055	-0.46325409	-0.88580982
H	7.37065455	-0.46333809	0.88579818
H	7.39065055	2.05234991	0.88862718
H	8.78492655	1.41118491	0.00008918
H	7.39065755	2.05243391	-0.88840082
O	5.64069755	0.27523491	0.00002418
O	-5.57766645	-0.42703009	-0.00001082

The geometric structure coordinates of N under $E_x = 0$ a.u.

C	0.71970200	0.15199500	-0.00006300
C	2.88062100	-0.71668000	0.00023100
C	3.44486500	0.56410800	0.00009200
C	2.60014600	1.66674000	-0.00015200
C	1.21578500	1.48649300	-0.00024800
C	-0.71971000	-0.15189400	-0.00007700
C	-1.21575100	-1.48640800	0.00009600
C	-2.60010600	-1.66670000	0.00000700
C	-3.44486200	-0.56409700	-0.00022100
C	-2.88065900	0.71670900	-0.00035100
H	3.50495000	-1.60019000	0.00041700
H	3.00799100	2.66955800	-0.00029400
H	-3.00791800	-2.66953100	0.00013200
H	-3.50501700	1.60019800	-0.00052300
O	-0.42792200	-2.56420300	0.00034100
H	0.51145900	-2.22947200	0.00054900

O	0.42799700	2.56431700	-0.00054900
H	-0.51139100	2.22960900	-0.00071900
N	1.56661100	-0.90076800	0.00014600
N	-1.56665400	0.90084100	-0.00028300
C	-4.91872800	-0.79486800	-0.00027100
C	4.91873700	0.79483200	0.00018600
O	5.43292800	1.88760900	0.00008200
O	-5.43288200	-1.88766200	-0.00001600
C	-7.05623800	0.23839900	-0.00063300
C	-7.62233900	1.64255600	0.00169200
H	-7.35763300	-0.33280000	0.88077800
H	-7.35796300	-0.32992100	-0.88382700
H	-7.29604500	2.19268400	-0.88349700
H	-8.71452300	1.60298000	0.00114500
H	-7.29679100	2.18952000	0.88911700
C	7.05621500	-0.23850900	0.00043100
C	7.62227600	-1.64268500	-0.00045500
H	7.35776400	0.33064700	0.88313100
H	7.35781900	0.33183700	-0.88147600
H	7.29586400	-2.19077000	-0.88686600
H	8.71446000	-1.60314200	-0.00102300
H	7.29680800	-2.19167100	0.88575200
O	5.61092500	-0.36020500	0.00044100
O	-5.61095400	0.36014500	-0.00072700

The geometric structure coordinates of N* under E_x = 0 a.u.

C	0.69836100	0.14243300	0.00005700
C	2.87503200	-0.70515600	-0.00027500
C	3.45299100	0.58692300	0.00004100
C	2.59844400	1.69638600	0.00031100

C	1.21784300	1.49821200	0.00028300
C	-0.69835000	-0.14253200	0.00010400
C	-1.21787700	-1.49830000	-0.00008600
C	-2.59848600	-1.69642400	-0.00017000
C	-3.45299500	-0.58693200	0.00001800
C	-2.87499200	0.70512600	0.00030200
H	3.51334900	-1.57983200	-0.00049600
H	2.99909600	2.70133000	0.00050200
H	-2.99917400	-2.70135400	-0.00033100
H	-3.51327900	1.57982400	0.00045800
O	-0.40514600	-2.54262200	-0.00007900
H	0.54568600	-2.17467600	0.00032800
O	0.40506100	2.54249600	0.00037500
H	-0.54574700	2.17450400	0.00004400
N	1.57070200	-0.91698000	-0.00026200
N	-1.57065400	0.91690800	0.00033600
C	-4.91079300	-0.80191300	-0.00005100
C	4.91078200	0.80195300	0.00006200
O	5.44014200	1.89373700	0.00035200
O	-5.44019100	-1.89367900	-0.00041900
C	-7.04337800	0.24666900	-0.00024100
C	-7.60918800	1.65157300	0.00047400
H	-7.34953000	-0.32307000	0.88112800
H	-7.34936200	-0.32207600	-0.88231900
H	-7.28233900	2.20052900	-0.88543700
H	-8.70154500	1.61395100	0.00030700
H	-7.28257200	2.19952600	0.88709100
C	7.04340200	-0.24655700	-0.00012400
C	7.60925900	-1.65144300	-0.00066200
H	7.34945200	0.32235400	0.88182100

H	7.34944900	0.32303500	-0.88162700
H	7.28254500	-2.19956500	-0.88713900
H	8.70161400	-1.61378400	-0.00064600
H	7.28254400	-2.20025100	0.88538900
O	5.60194900	-0.36574600	-0.00016200
O	-5.60192200	0.36580900	-0.00004700

The geometric structure coordinates of T1*/T2* under $E_x = 0$ a.u.

C	-0.68479900	0.16701400	0.14076100
C	-2.93168500	-0.70643600	0.16394500
C	-3.46116000	0.55600200	-0.01428000
C	-2.58908900	1.66640600	-0.09711800
C	-1.21217700	1.48013500	-0.01245400
C	0.73162800	-0.13574500	0.04469700
C	1.22200500	-1.51503800	-0.10409100
C	2.61186100	-1.68321200	-0.07863200
C	3.47302800	-0.57364400	-0.00626200
C	2.91986500	0.69867700	0.07250200
H	-3.54307300	-1.59117300	0.25554200
H	-2.99020100	2.66436800	-0.20310300
H	3.01913600	-2.67712700	-0.20506800
H	3.53726600	1.58636600	0.06388400
O	0.38142000	-2.47928400	-0.20029700
H	-1.19086300	-1.80496400	0.29375100
O	-0.41269100	2.54587500	-0.07550300
H	0.52105100	2.22442700	0.04173400
N	-1.60198400	-0.86555000	0.27649600
N	1.59483000	0.87826400	0.14637100
C	4.93644700	-0.80173200	-0.05346800
C	-4.92409100	0.78107300	-0.08153900

O	-5.43358100	1.86772600	-0.23026600
O	5.45252400	-1.89112400	-0.16090900
C	7.07875000	0.22167500	-0.00240400
C	7.65586600	1.61738600	0.10925000
H	7.36174200	-0.26986400	-0.93672600
H	7.39618900	-0.42430400	0.82011800
H	7.34971700	2.08839300	1.04588900
H	8.74767600	1.57250500	0.08525200
H	7.31752100	2.24322100	-0.71947200
C	-7.06836500	-0.24169900	-0.03287800
C	-7.64774700	-1.63230000	0.12016200
H	-7.33492100	0.21521200	-0.98917000
H	-7.39753500	0.43402400	0.76042400
H	-7.35953300	-2.06838800	1.07917500
H	-8.73880500	-1.58789500	0.07521100
H	-7.29600300	-2.28839000	-0.67905200
O	-5.62661200	-0.36895900	0.03464100
O	5.63752600	0.35116600	0.03763500

The geometric structure coordinates of T3* in under $E_x = 0$ a.u.

C	-0.68651200	-0.16804900	-0.00003400
C	-2.92805500	0.69444200	-0.00004500
C	-3.46994800	-0.59228600	-0.00003700
C	-2.61148600	-1.69788700	-0.00002800
C	-1.19711300	-1.54426200	-0.00003100
C	0.68660400	0.16797500	-0.00003200
C	1.19705900	1.54436300	-0.00004500
C	2.61150300	1.69791900	-0.00004700
C	3.46989000	0.59229500	-0.00003700
C	2.92805700	-0.69449000	-0.00002300

H	-3.53867900	1.58478300	-0.00005400
H	-3.01822700	-2.70041800	-0.00001700
H	3.01834100	2.70041300	-0.00005900
H	3.53882100	-1.58473800	-0.00001000
O	0.39977100	2.52810800	-0.00005800
H	-1.14388200	1.80254200	-0.00004900
O	-0.39975200	-2.52809000	-0.00002400
H	1.14382700	-1.80275600	-0.00001400
N	-1.60136100	0.86491700	-0.00004200
N	1.60143800	-0.86505700	-0.00002100
C	4.93644800	0.80641500	-0.00004100
C	-4.93650700	-0.80641800	-0.00003300
O	-5.46393100	-1.89469300	-0.00001400
O	5.46389200	1.89468300	-0.00003700
C	7.06696800	-0.24810600	-0.00000600
C	7.62649100	-1.65525800	0.00039000
H	7.37359300	0.31995700	0.88191100
H	7.37366300	0.31947500	-0.88221300
H	7.29831800	-2.20266100	-0.88597400
H	8.71890000	-1.62159600	0.00040500
H	7.29827600	-2.20217300	0.88704000
C	-7.06700400	0.24815100	-0.00002700
C	-7.62647100	1.65532100	0.00020300
H	-7.37363900	-0.31979500	0.88196000
H	-7.37369300	-0.31952600	-0.88217000
H	-7.29825900	2.20261500	-0.88621300
H	-8.71888300	1.62169600	0.00019300
H	-7.29826600	2.20232100	0.88680300
O	-5.62296500	0.36135500	-0.00005700
O	5.62295100	-0.36135300	-0.00004200

The geometric structure coordinates of TS* of N*-T1*/T2* path under E_x = 0 a.u.

C	-0.68853283	0.22821299	0.00001491
C	-2.85355483	-0.69615501	-0.00008309
C	-3.44892083	0.58278099	0.00002591
C	-2.61424283	1.71455799	0.00013291
C	-1.22955083	1.55411299	0.00012891
C	0.71394617	-0.06435401	0.00000091
C	1.18741417	-1.44953801	-0.00012009
C	2.56859417	-1.67989901	-0.00013009
C	3.44671017	-0.58788001	-0.00002609
C	2.90344117	0.71184099	0.00008691
H	-3.46218183	-1.59052501	-0.00016709
H	-3.04294583	2.70768799	0.00021791
H	2.94625417	-2.69380301	-0.00021809
H	3.56110717	1.57159199	0.00016891
O	0.32133517	-2.42440901	-0.00021409
H	-0.72236783	-1.90112601	-0.00017509
O	-0.44110083	2.62636099	0.00022991
H	0.50407917	2.30029799	0.00020891
N	-1.54410283	-0.85425301	-0.00008709
N	1.59126917	0.96520299	0.00009991
C	4.90295917	-0.83599701	-0.00003809
C	-4.90965483	0.76848799	0.00003191
O	-5.46211383	1.84910199	0.00012391
O	5.40401517	-1.93951901	-0.00013309
C	7.05933917	0.16225499	0.00006591
C	7.65575617	1.55426399	0.00019191
H	7.35171717	-0.41348401	-0.88188909
H	7.35170517	-0.41363801	0.88192391

H	7.34147117	2.10970999	0.88655791
H	8.74695517	1.49217799	0.00019391
H	7.34148317	2.10986499	-0.88608009
C	-7.02084783	-0.32332901	-0.00008109
C	-7.55891483	-1.73921001	-0.00020909
H	-7.33866983	0.23958499	-0.88171909
H	-7.33868283	0.23943099	0.88164991
H	-7.22136783	-2.28121001	0.88601391
H	-8.65181583	-1.72341001	-0.00021609
H	-7.22135483	-2.28105501	-0.88652009
O	-5.57779283	-0.41403601	-0.00007909
O	5.61972117	0.31354099	0.00006991

The geometric structure coordinates of TS* of T1*/T2*-T3* path under E_x = 0 a.u.

C	-0.69420860	-0.06879035	-0.00000879
C	-2.94834560	0.72987265	-0.00001379
C	-3.44501160	-0.57617035	0.00001121
C	-2.54975060	-1.65758235	0.00002621
C	-1.15759160	-1.43804335	0.00001621
C	0.69543940	0.25141565	-0.00001079
C	1.22395340	1.61583265	-0.00003079
C	2.63622140	1.73698165	-0.00003179
C	3.45792540	0.59798865	-0.00001279
C	2.86831540	-0.66992735	0.00000621
H	-3.59171160	1.59676465	-0.00002779
H	-2.92582860	-2.67180435	0.00004521
H	3.07621740	2.72541265	-0.00004479
H	3.46137240	-1.57336835	0.00002321
O	0.42588140	2.60580365	-0.00004879
H	-1.19990360	1.88625665	-0.00003979

O	-0.29862760	-2.40652635	0.00002821
H	0.79980840	-1.82869835	0.00001721
N	-1.63237660	0.94205665	-0.00002379
N	1.53511640	-0.81970735	0.00000521
C	4.92879540	0.76787265	-0.00001179
C	-4.90220560	-0.84269235	0.00002121
O	-5.38875660	-1.95048235	0.00004221
O	5.48936840	1.84063565	-0.00002579
C	7.02860840	-0.34502635	0.00001021
C	7.54938840	-1.76715735	0.00003321
H	7.35174240	0.21402665	0.88192021
H	7.35174740	0.21400065	-0.88191379
H	7.20567940	-2.30501735	-0.88628679
H	8.64236640	-1.76401635	0.00003521
H	7.20567440	-2.30499135	0.88636721
C	-7.06937160	0.13431965	0.00001121
C	-7.67902260	1.52039265	-0.00001079
H	-7.35504160	-0.44419335	0.88214521
H	-7.35504760	-0.44422435	-0.88209979
H	-7.37093460	2.07897865	-0.88659479
H	-8.76947160	1.44725465	-0.00000579
H	-7.37092760	2.07900965	0.88655121
O	-5.62995360	0.29932865	0.00000321
O	5.58309140	-0.41886435	0.00000821

The geometric structure coordinates of N under $E_x = +1 \times 10^{-4}$ a.u.

C	0.71986300	0.15193500	-0.00002700
C	2.88090500	-0.71636900	0.00000700
C	3.44503300	0.56440400	0.00015100
C	2.60011000	1.66701100	0.00015700

C	1.21582100	1.48661100	0.00003500
C	-0.71953700	-0.15196000	-0.00001700
C	-1.21568500	-1.48634200	-0.00008400
C	-2.60008300	-1.66646200	-0.00020300
C	-3.44464000	-0.56384200	-0.00019900
C	-2.88030300	0.71696800	-0.00005200
H	3.50521500	-1.59989200	-0.00002400
H	3.00771900	2.66991700	0.00021100
H	-3.00816000	-2.66919100	-0.00025200
H	-3.50464000	1.60046000	-0.00002100
O	-0.42806200	-2.56439700	0.00003200
H	0.51122400	-2.22998600	0.00030900
O	0.42787100	2.56422200	-0.00008800
H	-0.51156500	2.22923200	-0.00037300
N	1.56691500	-0.90062200	-0.00007700
N	-1.56630100	0.90094900	0.00003700
C	-4.91873500	-0.79474800	-0.00029500
C	4.91870200	0.79496600	0.00024900
O	5.43356800	1.88745600	0.00032300
O	-5.43218000	-1.88778200	-0.00029800
C	-7.05633000	0.23836900	-0.00012900
C	-7.62257200	1.64243700	0.00112000
H	-7.35762800	-0.33219900	0.88171100
H	-7.35786800	-0.33067800	-0.88287900
H	-7.29690100	2.19179700	-0.88476800
H	-8.71470800	1.60258700	0.00114800
H	-7.29679100	2.19025300	0.88792100
C	7.05592300	-0.23859600	0.00019400
C	7.62200800	-1.64282500	-0.00041100
H	7.35775600	0.33075800	0.88269800

H	7.35770100	0.33150200	-0.88184200
H	7.29587100	-2.19095800	-0.88688900
H	8.71422000	-1.60341200	-0.00044900
H	7.29595800	-2.19169900	0.88563800
O	5.61096100	-0.36030400	0.00018700
O	-5.61081700	0.36003300	-0.00025700

The geometric structure coordinates of N* under $E_x = +1 \times 10^{-4}$ a.u.

C	0.69855000	0.14412400	0.00001900
C	2.87499600	-0.70435000	-0.00004800
C	3.45331200	0.58780300	0.00012000
C	2.59880500	1.69753300	0.00027600
C	1.21811700	1.49947300	0.00024500
C	-0.69819100	-0.14087700	-0.00005500
C	-1.21732300	-1.49713500	-0.00028600
C	-2.59783800	-1.69582700	-0.00026200
C	-3.45259300	-0.58670000	-0.00007600
C	-2.87528100	0.70536500	0.00007600
H	3.51310800	-1.57917600	-0.00017700
H	2.99947300	2.70244200	0.00043600
H	-2.99821400	-2.70088700	-0.00041300
H	-3.51385000	1.57984500	0.00022000
O	-0.40396800	-2.54079100	-0.00057400
H	0.54691600	-2.17175200	-0.00074100
O	0.40573100	2.54424800	0.00048100
H	-0.54500800	2.17701000	0.00061900
N	1.57094700	-0.91578300	-0.00010100
N	-1.57061300	0.91785800	0.00009100
C	-4.91068300	-0.80250800	-0.00006000
C	4.91073100	0.80217000	0.00015100

O	5.44127600	1.89356400	0.00029700
O	-5.43866100	-1.89476500	-0.00014700
C	-7.04382000	0.24514100	0.00028600
C	-7.60986300	1.64987600	0.00060000
H	-7.34939600	-0.32437000	0.88195800
H	-7.34954400	-0.32403400	-0.88155300
H	-7.28348000	2.19858500	-0.88562800
H	-8.70217800	1.61186100	0.00068600
H	-7.28333000	2.19824900	0.88698100
C	7.04273900	-0.24754800	-0.00002600
C	7.60810800	-1.65270600	-0.00025300
H	7.34932600	0.32139600	0.88175500
H	7.34930500	0.32167400	-0.88163500
H	7.28102800	-2.20089400	-0.88656200
H	8.70050900	-1.61561600	-0.00025400
H	7.28103900	-2.20117500	0.88588600
O	5.60163800	-0.36625900	-0.00002700
O	-5.60198700	0.36453900	0.00018600

The geometric structure coordinates of T1* under $E_x = +1 \times 10^{-4}$ a.u.

C	0.67230400	0.16026800	-0.12103800
C	2.91475400	-0.72317100	-0.13891800
C	3.44973100	0.53875300	0.02810100
C	2.58273700	1.65354000	0.10282400
C	1.20447800	1.47180000	0.02121200
C	-0.74596200	-0.13707200	-0.02087300
C	-1.23884600	-1.51315000	0.14445600
C	-2.62981700	-1.67763700	0.12065100
C	-3.48762900	-0.56674300	0.03581100
C	-2.93123200	0.70311500	-0.05709800

H	3.52254400	-1.61109000	-0.22336700
H	2.98793800	2.65075700	0.19961900
H	-3.03985000	-2.66888600	0.25886900
H	-3.54615700	1.59252800	-0.05794200
O	-0.40178900	-2.47868900	0.25343100
H	1.16843000	-1.81549300	-0.25375100
O	0.40926800	2.54113800	0.07606700
H	-0.52568200	2.22273100	-0.03997900
N	1.58448100	-0.87774600	-0.24919600
N	-1.60513500	0.87845000	-0.13383400
C	-4.95218600	-0.79058500	0.08527200
C	4.91363100	0.75767900	0.09172800
O	5.42872900	1.84296200	0.23126300
O	-5.47036700	-1.87752800	0.20512800
C	-7.09190100	0.23757700	0.02066100
C	-7.66510600	1.63328200	-0.10891600
H	-7.37655600	-0.24144400	0.96092400
H	-7.41027400	-0.41787300	-0.79391700
H	-7.35719200	2.09164700	-1.05122400
H	-8.75701900	1.59152400	-0.08510200
H	-7.32575200	2.26858600	0.71214700
C	7.05309400	-0.27520000	0.04945700
C	7.62620500	-1.66963700	-0.09239900
H	7.32267300	0.18848300	1.00166600
H	7.38482700	0.39236600	-0.74970500
H	7.33510700	-2.11245100	-1.04745500
H	8.71751400	-1.62981400	-0.04873100
H	7.27211900	-2.31742100	0.71253700
O	5.61104600	-0.39664000	-0.01587300
O	-5.64992600	0.36260400	-0.02000900

The geometric structure coordinates of T2* under $E_x = +1 \times 10^{-4}$ a.u.

C	0.74596600	0.14083500	0.02393300
C	2.93111900	-0.70087700	0.05970500
C	3.48899400	0.56853700	-0.03284400
C	2.63166600	1.68040800	-0.11631200
C	1.24110900	1.51674300	-0.13951300
C	-0.67151800	-0.15595300	0.12359300
C	-1.20339100	-1.46860500	-0.01637700
C	-2.58106900	-1.65101900	-0.09884300
C	-3.44912600	-0.53700200	-0.02681800
C	-2.91543900	0.72535100	0.13893500
H	3.54534400	-1.59081600	0.06012000
H	3.04221600	2.67153100	-0.25360400
H	-2.98562900	-2.64860100	-0.19488800
H	-3.52393000	1.61292200	0.22205100
O	-0.40775400	-2.53782000	-0.06929000
H	0.52710600	-2.21866700	0.04498800
O	0.40413800	2.48288500	-0.24614100
H	-1.17098700	1.81924700	0.25700500
N	1.60551300	-0.87530800	0.13602900
N	-1.58506400	0.88113300	0.24965300
C	-4.91313100	-0.75805200	-0.09159300
C	4.95293900	0.79042800	-0.08333700
O	5.47373500	1.87648800	-0.20204000
O	-5.42552800	-1.84467600	-0.22948800
C	-7.05418600	0.27200800	-0.05263700
C	-7.62885500	1.66594100	0.08665200
H	-7.38509800	-0.39468600	0.74750800
H	-7.32232800	-0.19359100	-1.00424800

H	-7.27533600	2.31285200	-0.71922800
H	-8.72004300	1.62459100	0.04247100
H	-7.33900900	2.11065200	1.04120100
C	7.09126000	-0.24066800	-0.02289500
C	7.66325700	-1.63735100	0.10285300
H	7.41183700	0.41255900	0.79269600
H	7.37574900	0.24008700	-0.96239300
H	7.32195700	-2.27041000	-0.71914700
H	8.75524100	-1.59693900	0.07780800
H	7.35575500	-2.09750400	1.04443400
O	5.64990400	-0.36440500	0.01929100
O	-5.61165700	0.39508100	0.01319400

The geometric structure coordinates of T3* in under $E_x = +1 \times 10^{-4}$ a.u.

C	0.68757400	0.16747100	-0.00023000
C	2.93019900	-0.70068100	-0.00020900
C	3.47682600	0.58355400	-0.00004200
C	2.62120500	1.69068200	-0.00001400
C	1.20552800	1.54260400	-0.00022500
C	-0.68736200	-0.16624000	-0.00006700
C	-1.20509900	-1.54149400	-0.00009900
C	-2.62074900	-1.68945400	-0.00018900
C	-3.47624800	-0.58250100	-0.00011700
C	-2.93007000	0.70168700	0.00001700
H	3.53693200	-1.59365200	-0.00026800
H	3.02983500	2.69244400	0.00006100
H	-3.02961400	-2.69113900	-0.00022400
H	-3.53698200	1.59454800	0.00007300
O	-0.41660500	-2.53113700	-0.00005300
H	1.15315600	-1.80398700	-0.00033100

O	0.41705300	2.53222800	-0.00033700
H	-1.15269500	1.80510400	0.00003300
N	1.60273600	-0.86646000	-0.00031200
N	-1.60230100	0.86758100	0.00004800
C	-4.94382100	-0.79245900	-0.00014400
C	4.94387100	0.79252300	0.00009100
O	5.47569700	1.87868700	0.00021300
O	-5.47374500	-1.87932500	-0.00013700
C	-7.07121500	0.26849600	-0.00006200
C	-7.62618100	1.67737800	0.00121400
H	-7.37929800	-0.29918800	0.88154200
H	-7.37951300	-0.29756900	-0.88264200
H	-7.29631600	2.22432100	-0.88480600
H	-8.71866500	1.64707400	0.00108700
H	-7.29645200	2.22267500	0.88828800
C	7.07047700	-0.26973700	0.00019700
C	7.62508300	-1.67888800	-0.00005600
H	7.37926000	0.29678500	0.88238900
H	7.37940200	0.29715300	-0.88170400
H	7.29488000	-2.22469200	-0.88665600
H	8.71763000	-1.64919000	-0.00000700
H	7.29480900	-2.22505300	0.88629400
O	5.62635600	-0.37796400	0.00006600
O	-5.62644900	0.37706200	-0.00018700

The geometric structure coordinates of TS* of N*-T1* path under $E_x = +1 \times 10^{-4}$ a.u.

C	0.69844800	0.24796200	0.00002200
C	2.86278400	-0.67792300	-0.00016700
C	3.45908600	0.60074400	0.00013000
C	2.62485400	1.73306100	0.00036000

C	1.24000000	1.57330700	0.00031000
C	-0.70471400	-0.04425600	0.00002700
C	-1.17854700	-1.42939600	-0.00014800
C	-2.55979200	-1.65924200	-0.00016300
C	-3.43753900	-0.56702300	0.00001400
C	-2.89416200	0.73220100	0.00020900
H	3.47076800	-1.57272500	-0.00037400
H	3.05395400	2.72600300	0.00057300
H	-2.93787400	-2.67300500	-0.00029100
H	-3.55137300	1.59227400	0.00037200
O	-0.31280800	-2.40452000	-0.00026700
H	0.73129400	-1.88144300	-0.00037000
O	0.45229600	2.64620000	0.00053700
H	-0.49317800	2.32089500	0.00045200
N	1.55340200	-0.83503900	-0.00022900
N	-1.58130100	0.98510000	0.00021100
C	-4.89424500	-0.81518000	0.00001000
C	4.91954500	0.78529600	0.00017900
O	5.47357000	1.86529700	0.00042700
O	-5.39456500	-1.91885800	-0.00014100
C	-7.05064800	0.18317700	0.00021300
C	-7.64662200	1.57530200	0.00045800
H	-7.34286300	-0.39273600	0.88206100
H	-7.34291400	-0.39244600	-0.88180800
H	-7.33236800	2.13089200	-0.88582100
H	-8.73780200	1.51338000	0.00048200
H	-7.33231200	2.13060200	0.88689800
C	7.02982000	-0.30821000	-0.00005600
C	7.56707800	-1.72447400	-0.00037700
H	7.34827300	0.25417600	0.88173800

H	7.34828200	0.25457900	-0.88159000
H	7.22901900	-2.26597000	-0.88672100
H	8.66001700	-1.70952300	-0.00037200
H	7.22901700	-2.26637300	0.88571900
O	5.58709500	-0.39811800	-0.00008400
O	-5.61060000	0.33403500	0.00019500

The geometric structure coordinates of TS* of T1*-T3* path under $E_x = +1 \times 10^{-4}$ a.u.

C	0.69449980	0.06814377	-0.00062381
C	2.94627880	-0.73661023	-0.00180581
C	3.44656180	0.56820977	-0.00144481
C	2.55405580	1.65206877	-0.00066381
C	1.16129880	1.43607777	-0.00027781
C	-0.69621320	-0.24870923	0.00002819
C	-1.22756820	-1.61198123	-0.00008681
C	-2.64005520	-1.72986823	0.00067119
C	-3.45909620	-0.58903023	0.00149619
C	-2.86693520	0.67745277	0.00151419
H	3.58726680	-1.60525223	-0.00243481
H	2.93270580	2.66532277	-0.00041081
H	-3.08247020	-2.71723023	0.00067519
H	-3.45794920	1.58221877	0.00213319
O	-0.43154920	-2.60369423	-0.00087481
H	1.19441780	-1.88822223	-0.00156781
O	0.30472280	2.40670177	0.00037719
H	-0.79516920	1.83166877	0.00068619
N	1.62991580	-0.94519823	-0.00139681
N	-1.53306920	0.82417577	0.00076719
C	-4.93067720	-0.75612923	0.00234519
C	4.90417380	0.83048177	-0.00190281

O	5.39456680	1.93670377	-0.00162081
O	-5.49266020	-1.82801923	0.00239619
C	-7.02842120	0.36075877	0.00389219
C	-7.54621720	1.78391377	0.00375319
H	-7.35196120	-0.19737723	0.88619619
H	-7.35295520	-0.19793523	-0.87768581
H	-7.20215820	2.32075077	-0.88304681
H	-8.63917320	1.78289577	0.00453319
H	-7.20089920	2.32138277	0.88968019
C	7.06842480	-0.15280723	-0.00316381
C	7.67432780	-1.54058923	-0.00392581
H	7.35627380	0.42457477	0.87904219
H	7.35559280	0.42524377	-0.88515281
H	7.36421780	-2.09800223	-0.89054881
H	8.76500480	-1.47056723	-0.00433281
H	7.36492180	-2.09866823	0.88252519
O	5.62891480	-0.31392423	-0.00266981
O	-5.58240320	0.43154377	0.00307119

The geometric structure coordinates of TS* of N*-T2* path under $E_x = +1 \times 10^{-4}$ a.u.

C	0.71374374	0.06479637	0.00002333
C	2.90282774	-0.71264763	-0.00017267
C	3.44693774	0.58714137	0.00006133
C	2.56922774	1.67956437	0.00027433
C	1.18788974	1.44976437	0.00025133
C	-0.68830126	-0.22718863	0.00001333
C	-1.22987226	-1.55315663	-0.00026667
C	-2.61455226	-1.71312863	-0.00030267
C	-3.44878826	-0.58123163	-0.00006367
C	-2.85334126	0.69746937	0.00021733

H	3.56027474	-1.57258763	-0.00035667
H	2.94717974	2.69334637	0.00044133
H	-3.04364626	-2.70610563	-0.00051067
H	-3.46184526	1.59192537	0.00042033
O	-0.44168326	-2.62549063	-0.00049867
H	0.50365774	-2.29950963	-0.00043067
O	0.32238474	2.42498437	0.00042533
H	-0.72192426	1.90179437	0.00040033
N	1.59107174	-0.96549063	-0.00018767
N	-1.54368326	0.85539637	0.00026033
C	-4.90994326	-0.76691963	-0.00009967
C	4.90292074	0.83414537	0.00007833
O	5.40552374	1.93713637	0.00026733
O	-5.46171426	-1.84769563	-0.00033567
C	-7.02116726	0.32494537	0.00013933
C	-7.55886026	1.74089237	0.00045033
H	-7.33883126	-0.23806763	0.88172433
H	-7.33883226	-0.23767963	-0.88169467
H	-7.22133826	2.28295037	-0.88573767
H	-8.65173426	1.72518037	0.00044633
H	-7.22134026	2.28256037	0.88687833
C	7.05852774	-0.16563763	-0.00013967
C	7.65432274	-1.55798763	-0.00039267
H	7.35148974	0.40984637	0.88183433
H	7.35146074	0.41015537	-0.88192167
H	7.33960874	-2.11319363	-0.88676367
H	8.74558774	-1.49657763	-0.00039967
H	7.33963774	-2.11350363	0.88579533
O	5.61922274	-0.31625463	-0.00014167
O	-5.57771026	0.41526637	0.00015833

The geometric structure coordinates of TS* of T2*-T3* path under $E_x = +1 \times 10^{-4}$ a.u.

C	0.69586268	0.25067860	-0.00058256
C	2.86650968	-0.67632440	-0.00082756
C	3.45966368	0.59017960	-0.00216256
C	2.64077968	1.73126060	-0.00275656
C	1.22813968	1.61368060	-0.00205156
C	-0.69424032	-0.06618540	0.00041544
C	-1.16090332	-1.43452640	0.00169144
C	-2.55354532	-1.65078340	0.00250844
C	-3.44628632	-0.56746340	0.00211744
C	-2.94685432	0.73736260	0.00091744
H	3.45723468	-1.58130140	-0.00037856
H	3.08310968	2.71863760	-0.00384056
H	-2.93199332	-2.66413340	0.00346944
H	-3.58834732	1.60565160	0.00058844
O	-0.30433132	-2.40506940	0.00204144
H	0.79601268	-1.82963340	0.00109444
O	0.43284368	2.60578360	-0.00262356
H	-1.19622832	1.88997760	-0.00090156
N	1.53326768	-0.82269340	-0.00006256
N	-1.63023932	0.94671060	0.00016344
C	-4.90435132	-0.83111040	0.00302244
C	4.93063168	0.75576960	-0.00299956
O	5.49495168	1.82670360	-0.00420056
O	-5.39248132	-1.93807940	0.00407444
C	-7.06963932	0.15022260	0.00334844
C	-7.67626232	1.53755760	0.00289644
H	-7.35585632	-0.42723840	0.88595344
H	-7.35675132	-0.42819640	-0.87834056

H	-7.36756832	2.09502160	-0.88417856
H	-8.76683432	1.46663060	0.00349644
H	-7.36665532	2.09599260	0.88904144
C	7.02714868	-0.36323440	-0.00302156
C	7.54407068	-1.78683640	-0.00226156
H	7.35250168	0.19549760	0.87831744
H	7.35163768	0.19424860	-0.88546856
H	7.19838568	-2.32432940	-0.88804156
H	8.63707668	-1.78682840	-0.00270856
H	7.19911368	-2.32311440	0.88453844
O	5.58178268	-0.43317340	-0.00226056
O	-5.62951532	0.31208460	0.00252344

The geometric structure coordinates of N under $E_x = +5 \times 10^{-4}$ a.u.

C	0.72032800	0.15194100	0.00015200
C	2.88173100	-0.71551000	0.00006100
C	3.44564400	0.56516900	0.00020400
C	2.60016300	1.66782200	0.00031800
C	1.21604500	1.48714800	0.00029500
C	-0.71905400	-0.15195300	0.00008100
C	-1.21548700	-1.48581700	0.00000700
C	-2.60006200	-1.66564100	-0.00010700
C	-3.44406600	-0.56305200	-0.00013700
C	-2.87948700	0.71785500	-0.00005100
H	3.50592100	-1.59912300	-0.00003500
H	3.00714000	2.67096500	0.00042900
H	-3.00878400	-2.66812900	-0.00016300
H	-3.50394700	1.60126100	-0.00007300
O	-0.42835000	-2.56459700	0.00006400
H	0.51068000	-2.23120100	0.00020800

O	0.42763500	2.56404500	0.00041900
H	-0.51213200	2.22814800	0.00041000
N	1.56771000	-0.90008800	0.00003500
N	-1.56551500	0.90149600	0.00005100
C	-4.91892100	-0.79444700	-0.00025500
C	4.91854100	0.79524500	0.00023500
O	5.43579200	1.88676400	0.00029900
O	-5.42999100	-1.88845800	-0.00020600
C	-7.05720100	0.23807900	-0.00011800
C	-7.62327200	1.64200200	0.00076900
H	-7.35780800	-0.33235200	0.88193000
H	-7.35798400	-0.33128000	-0.88280700
H	-7.29806500	2.19119200	-0.88538500
H	-8.71532800	1.60174300	0.00079700
H	-7.29797300	2.19010200	0.88756300
C	7.05512900	-0.23888500	-0.00002200
C	7.62139600	-1.64325300	-0.00055800
H	7.35771300	0.33044300	0.88236400
H	7.35757200	0.33107100	-0.88204700
H	7.29476800	-2.19139700	-0.88686100
H	8.71369700	-1.60422900	-0.00064300
H	7.29492700	-2.19202000	0.88541700
O	5.61128700	-0.36091600	0.00006300
O	-5.61055200	0.35945100	-0.00021000

The geometric structure coordinates of N* under $E_x = +5 \times 10^{-4}$ a.u.

C	0.69944600	0.15062800	0.00011800
C	2.87455700	-0.70238100	0.00006600
C	3.45492100	0.58996200	-0.00002700
C	2.60087300	1.70085500	-0.00004600

C	1.21977300	1.50400100	0.00002800
C	-0.69763500	-0.13447600	0.00017900
C	-1.21587000	-1.49246300	0.00025900
C	-2.59614000	-1.69231000	0.00030500
C	-3.45134100	-0.58437700	0.00027700
C	-2.87590500	0.70746700	0.00019500
H	3.51166600	-1.57794800	0.00008500
H	3.00211400	2.70547500	-0.00011000
H	-2.99605400	-2.69763600	0.00036200
H	-3.51525200	1.58134400	0.00016800
O	-0.40072700	-2.53398500	0.00029100
H	0.55076300	-2.16178200	0.00025500
O	0.40925000	2.55091100	0.00002800
H	-0.54099400	2.18672200	0.00012800
N	1.57164400	-0.91154300	0.00013600
N	-1.56985900	0.92188400	0.00014900
C	-4.91082700	-0.80306200	0.00033100
C	4.91103900	0.80154400	-0.00010000
O	5.44670400	1.89120300	-0.00022800
O	-5.43372600	-1.89700800	0.00034400
C	-7.04619300	0.24050900	0.00019900
C	-7.61363200	1.64437900	0.00020600
H	-7.35001200	-0.32937200	0.88206100
H	-7.34998900	-0.32934700	-0.88169000
H	-7.28840900	2.19336700	-0.88624700
H	-8.70577600	1.60447800	0.00018500
H	-7.28844200	2.19334200	0.88668700
C	7.04083500	-0.25219400	-0.00026300
C	7.60504100	-1.65812900	-0.00032700
H	7.34930900	0.31639700	0.88128600

H	7.34914100	0.31641200	-0.88186100
H	7.27672300	-2.20606100	-0.88636700
H	8.69761300	-1.62274700	-0.00042800
H	7.27688700	-2.20607700	0.88576400
O	5.60122900	-0.36966500	-0.00012500
O	-5.60290500	0.36127700	0.00021700

The geometric structure coordinates of T1* under $E_x = +5 \times 10^{-4}$ a.u.

C	0.67353900	0.16661500	0.11803100
C	2.91412400	-0.71972600	0.13826600
C	3.45095700	0.54153100	-0.02946800
C	2.58515300	1.65773700	-0.10672400
C	1.20641500	1.47689700	-0.02652600
C	-0.74563200	-0.13124700	0.01758200
C	-1.23593200	-1.50761400	-0.14952200
C	-2.62704900	-1.67303400	-0.12511300
C	-3.48545500	-0.56345200	-0.03835800
C	-2.93136400	0.70703000	0.05465100
H	3.52052400	-1.60849800	0.22342200
H	2.99121000	2.65451100	-0.20380500
H	-3.03671200	-2.66437600	-0.26407200
H	-3.54729100	1.59568200	0.05627700
O	-0.39798500	-2.47229700	-0.26057900
H	1.16508200	-1.80974500	0.25019400
O	0.41160600	2.54643500	-0.08337600
H	-0.52343500	2.22899200	0.03397900
N	1.58395100	-0.87251100	0.24810700
N	-1.60473400	0.88299200	0.13148100
C	-4.95109900	-0.79064600	-0.08622500
C	4.91433200	0.75719100	-0.09176500

O	5.43408900	1.84045300	-0.23233600
O	-5.46455000	-1.87915700	-0.20849300
C	-7.09321400	0.23264400	-0.01600600
C	-7.66837700	1.62684000	0.11831000
H	-7.40830000	-0.42571200	0.79734300
H	-7.37754800	-0.24438200	-0.95724000
H	-7.33195600	2.26504900	-0.70168800
H	-8.76014200	1.58279400	0.09609900
H	-7.36024500	2.08315700	1.06152100
C	7.05132400	-0.28003100	-0.04692100
C	7.62228000	-1.67545800	0.09617500
H	7.38479700	0.38749900	0.75170700
H	7.32275100	0.18236300	-0.99936000
H	7.26683600	-2.32319600	-0.70821300
H	8.71377500	-1.63791900	0.05279200
H	7.32969700	-2.11703500	1.05136300
O	5.61031500	-0.39932700	0.01813900
O	-5.65004000	0.35971400	0.02284000

The geometric structure coordinates of T2* under $E_x = +5 \times 10^{-4}$ a.u.

C	0.74620200	0.14729000	0.02856200
C	2.93077500	-0.69707100	0.06267900
C	3.49145200	0.57180200	-0.02680800
C	2.63498400	1.68540400	-0.10622300
C	1.24464600	1.52311100	-0.12941600
C	-0.67027000	-0.14897000	0.12636500
C	-1.20145000	-1.46294400	-0.01255500
C	-2.57847400	-1.64613500	-0.09733200
C	-3.44793900	-0.53368800	-0.02752200
C	-2.91618100	0.72920500	0.13860100

H	3.54377200	-1.58793100	0.06079200
H	3.04621500	2.67664700	-0.24022000
H	-2.98209200	-2.64410500	-0.19410400
H	-3.52601400	1.61592800	0.22128800
O	-0.40531300	-2.53185900	-0.06379800
H	0.52941200	-2.21164900	0.04920100
O	0.40868800	2.49063500	-0.23109400
H	-1.17439400	1.82533000	0.26192300
N	1.60579400	-0.87058400	0.13780400
N	-1.58576500	0.88665900	0.25044200
C	-4.91236500	-0.75812000	-0.09455000
C	4.95428100	0.79001900	-0.07793600
O	5.48022900	1.87455700	-0.19201200
O	-5.41990300	-1.84673700	-0.23231900
C	-7.05604100	0.26733000	-0.05838300
C	-7.63306800	1.66013100	0.08009400
H	-7.38550000	-0.39983100	0.74181800
H	-7.32180600	-0.19910800	-1.01012200
H	-7.28060800	2.30751700	-0.72585600
H	-8.72404400	1.61640000	0.03509600
H	-7.34521800	2.10563400	1.03486200
C	7.08987700	-0.24671800	-0.02498300
C	7.65951800	-1.64530900	0.09289200
H	7.41380400	0.40160300	0.79336900
H	7.37501100	0.23811300	-0.96233600
H	7.31529400	-2.27345600	-0.73167300
H	8.75166200	-1.60739600	0.06652800
H	7.35193300	-2.10960600	1.03243000
O	5.64970300	-0.36813400	0.01850700
O	-5.61248300	0.39267500	0.00847400

The geometric structure coordinates of T3* in under $E_x = +5 \times 10^{-4}$ a.u.

C	0.68740600	0.16876300	0.00040400
C	2.92369100	-0.70141000	0.00018200
C	3.47009800	0.58447900	0.00021500
C	2.61489900	1.69374700	0.00048900
C	1.20049700	1.54319400	0.00060000
C	-0.68625500	-0.16248800	0.00048800
C	-1.19825100	-1.53747100	0.00040600
C	-2.61253500	-1.68751500	0.00026400
C	-3.46715800	-0.57917700	0.00040300
C	-2.92303000	0.70646600	0.00071500
H	3.53202200	-1.59329800	-0.00014200
H	3.02480300	2.69495400	0.00054500
H	-3.02349400	-2.68838500	0.00013000
H	-3.53232100	1.59776100	0.00090200
O	-0.40027000	-2.52164300	0.00063900
H	1.12964100	-1.80368600	0.00039100
O	0.40254100	2.52718700	0.00067700
H	-1.12732300	1.80917400	0.00110900
N	1.59757500	-0.86820700	0.00022300
N	-1.59539300	0.87393000	0.00084300
C	-4.93553900	-0.79170500	0.00037400
C	4.93583200	0.79208500	-0.00002400
O	5.47112100	1.87715000	-0.00014200
O	-5.46130100	-1.88027900	0.00041300
C	-7.06519600	0.26551200	0.00030900
C	-7.62182200	1.67351300	-0.00082400
H	-7.37183000	-0.30112900	0.88295300
H	-7.37185900	-0.30261200	-0.88137400

H	-7.29335800	2.21929600	-0.88805300
H	-8.71416900	1.64133700	-0.00064900
H	-7.29311400	2.22092500	0.88531700
C	7.06148200	-0.27160900	-0.00046300
C	7.61633300	-1.68094400	-0.00096000
H	7.37162300	0.29472300	0.88154600
H	7.37116600	0.29516600	-0.88234600
H	7.28525100	-2.22669100	-0.88728500
H	8.70899300	-1.65174300	-0.00133100
H	7.28587500	-2.22707500	0.88536400
O	5.61882500	-0.38008600	-0.00012300
O	-5.61927500	0.37560400	0.00030200

The geometric structure coordinates of TS* of N*-T1* path under $E_x = +5 \times 10^{-4}$ a.u.

C	0.69052149	0.23232580	-0.00002768
C	2.85290549	-0.69727220	-0.00009268
C	3.45167949	0.58098180	-0.00013268
C	2.61802549	1.71452180	-0.00011768
C	1.23275249	1.55594480	-0.00006568
C	-0.71530051	-0.05963520	0.00002732
C	-1.18910151	-1.44483620	0.00006432
C	-2.57028951	-1.67407820	0.00011832
C	-3.44757851	-0.58184720	0.00013432
C	-2.90494351	0.71593780	0.00009532
H	3.45922349	-1.59317820	-0.00010268
H	3.04766549	2.70716880	-0.00014668
H	-2.94917251	-2.68760720	0.00014632
H	-3.56121251	1.57664480	0.00010632
O	-0.32338951	-2.42017020	0.00004732
H	0.72006849	-1.89768220	0.00000232

O	0.44679949	2.63068380	-0.00005168
H	-0.49847251	2.30792980	-0.00001368
N	1.54397149	-0.85186720	-0.00004368
N	-1.58970151	0.96824280	0.00004432
C	-4.90583151	-0.83178620	0.00019032
C	4.91083849	0.76247180	-0.00018868
O	5.47000049	1.84061280	-0.00022268
O	-5.40189751	-1.93672120	0.00022532
C	-7.06361251	0.16409780	0.00025332
C	-7.65989351	1.55579180	0.00025632
H	-7.35442351	-0.41190020	0.88233432
H	-7.35448751	-0.41192520	-0.88178968
H	-7.34646651	2.11139280	-0.88627968
H	-8.75091751	1.49283480	0.00029632
H	-7.34640251	2.11141780	0.88675332
C	7.01854649	-0.33558820	-0.00025368
C	7.55415649	-1.75276520	-0.00025868
H	7.33896849	0.22639680	0.88127232
H	7.33890249	0.22637880	-0.88181468
H	7.21478649	-2.29395920	-0.88631068
H	8.64723349	-1.73982420	-0.00029968
H	7.21485249	-2.29394120	0.88583032
O	5.57724749	-0.42382620	-0.00019868
O	-5.62201851	0.31526780	0.00019932

The geometric structure coordinates of TS* of T1*-T3* path under $E_x = +5 \times 10^{-4}$ a.u.

C	0.69511884	0.07140556	-0.00000874
C	2.94461184	-0.73742944	0.00120326
C	3.44757384	0.56702356	-0.00038574
C	2.55633384	1.65258556	-0.00182074

C	1.16316284	1.43821456	-0.00167574
C	-0.69712016	-0.24436244	0.00025226
C	-1.22770316	-1.60769444	0.00189826
C	-2.64000016	-1.72505844	0.00191226
C	-3.45846016	-0.58406244	0.00041426
C	-2.86723316	0.68191656	-0.00110574
H	3.58391184	-1.60726844	0.00234926
H	2.93615484	2.66536356	-0.00305074
H	-3.08338416	-2.71203344	0.00309526
H	-3.45807016	1.58675356	-0.00229074
O	-0.43101516	-2.59924044	0.00320526
H	1.18955684	-1.88568744	0.00248026
O	0.30733184	2.40956756	-0.00296674
H	-0.79204316	1.83608756	-0.00234874
N	1.62857884	-0.94346044	0.00134626
N	-1.53201016	0.82820356	-0.00115974
C	-4.93138616	-0.75300944	0.00048026
C	4.90446484	0.82550056	-0.00057874
O	5.40019384	1.92987356	-0.00190574
O	-5.48955116	-1.82637344	0.00175726
C	-7.03070916	0.36132656	-0.00111274
C	-7.54914916	1.78398856	-0.00290074
H	-7.35351016	-0.19637044	0.88157426
H	-7.35333416	-0.19852444	-0.88250074
H	-7.20522416	2.32032856	-0.89003374
H	-8.64201216	1.78179656	-0.00300874
H	-7.20540316	2.32249156	0.88299026
C	7.06592684	-0.16329744	0.00083526
C	7.66939784	-1.55240244	0.00257226
H	7.35546784	0.41483356	0.88215726

H	7.35561584	0.41269256	-0.88183874
H	7.35810484	-2.11059444	-0.88316874
H	8.76033484	-1.48496544	0.00258126
H	7.35795784	-2.10844344	0.88961226
O	5.62752584	-0.32188644	0.00090726
O	-5.58332816	0.43266956	-0.00105674

The geometric structure coordinates of TS* of N*-T2* path under $E_x = +5 \times 10^{-4}$ a.u.

C	0.71296688	0.06751093	-0.00003025
C	2.90073388	-0.71371407	-0.00008325
C	3.44725188	0.58681493	-0.00016325
C	2.57041888	1.68033993	-0.00017725
C	1.18870788	1.45157293	-0.00011025
C	-0.68721912	-0.22293107	0.00003875
C	-1.22970512	-1.54986507	0.00011875
C	-2.61420412	-1.70920507	0.00018075
C	-3.44756812	-0.57751207	0.00016375
C	-2.85284712	0.70083293	0.00008275
H	3.55796788	-1.57390007	-0.00007125
H	2.94886088	2.69387593	-0.00023725
H	-3.04407212	-2.70191907	0.00024175
H	-3.46172712	1.59504893	0.00006675
O	-0.44106812	-2.62136307	0.00013575
H	0.50467188	-2.29413407	0.00008275
O	0.32419388	2.42769293	-0.00011925
H	-0.72101212	1.90546393	-0.00005425
N	1.59094388	-0.96537907	-0.00001925
N	-1.54242612	0.85939993	0.00002475
C	-4.91026812	-0.76445507	0.00022875
C	4.90198888	0.83032493	-0.00023225

O	5.41015288	1.93149093	-0.00030125
O	-5.45826712	-1.84642407	0.00029975
C	-7.02269512	0.32553793	0.00026275
C	-7.56035112	1.74120993	0.00021975
H	-7.33908912	-0.23747307	0.88212775
H	-7.33915812	-0.23755207	-0.88152725
H	-7.22353212	2.28314593	-0.88628525
H	-8.65311412	1.72475393	0.00026275
H	-7.22346212	2.28322693	0.88664875
C	7.05506488	-0.17448307	-0.00027425
C	7.64899688	-1.56792907	-0.00023625
H	7.35010188	0.40062093	0.88144275
H	7.35003088	0.40054193	-0.88206725
H	7.33282988	-2.12280907	-0.88632325
H	8.74049388	-1.50875707	-0.00028325
H	7.33290188	-2.12273007	0.88592675
O	5.61712088	-0.32314707	-0.00021025
O	-5.57768712	0.41575893	0.00020175

The geometric structure coordinates of TS* of T2*-T3* path under $E_x = +5 \times 10^{-4}$ a.u.

C	0.69542983	0.25389672	0.00111320
C	2.86499883	-0.67670028	-0.00206380
C	3.46130883	0.58932972	0.00273520
C	2.64374183	1.73160172	0.00688820
C	1.23069683	1.61584072	0.00626220
C	-0.69381317	-0.06171828	-0.00025280
C	-1.16143017	-1.43037828	-0.00546380
C	-2.55402617	-1.64589228	-0.00651080
C	-3.44625617	-0.56284528	-0.00260080
C	-2.94722917	0.74154972	0.00238620

H	3.45436283	-1.58260328	-0.00537280
H	3.08677083	2.71861572	0.01061620
H	-2.93302317	-2.65907528	-0.01036980
H	-3.58889417	1.60974872	0.00554420
O	-0.30564817	-2.40153528	-0.00895980
H	0.79577983	-1.82641028	-0.00663780
O	0.43767783	2.60941972	0.00985820
H	-1.19771017	1.89445672	0.00699620
N	1.53287783	-0.82120828	-0.00277480
N	-1.62993417	0.95111972	0.00340520
C	-4.90544317	-0.82789328	-0.00384180
C	4.93118083	0.75060972	0.00351120
O	5.50112283	1.81913372	0.00755020
O	-5.39009317	-1.93590828	-0.00805280
C	-7.07189517	0.15157172	-0.00057780
C	-7.67868617	1.53856072	0.00437320
H	-7.35757617	-0.42976728	0.87950120
H	-7.35725117	-0.42332628	-0.88498280
H	-7.37007717	2.09986572	-0.88028480
H	-8.76911717	1.46682572	0.00390820
H	-7.37040917	2.09339372	0.89321920
C	7.02426283	-0.37446928	-0.00043580
C	7.53821883	-1.79939528	-0.00559080
H	7.35133683	0.17951172	0.88343220
H	7.35153383	0.18596372	-0.88015280
H	7.19127883	-2.33220328	-0.89372680
H	8.63132283	-1.80233628	-0.00548280
H	7.19108483	-2.33868328	0.87854920
O	5.58014083	-0.44147228	-0.00084480
O	-5.63039317	0.31358872	0.00027920

The geometric structure coordinates of N under $E_x = +1 \times 10^{-3}$ a.u.

C	0.72098400	0.15196700	-0.00008700
C	2.88290300	-0.71430500	-0.00006700
C	3.44650800	0.56626800	0.00009200
C	2.60026300	1.66897000	0.00013700
C	1.21637900	1.48787300	0.00002900
C	-0.71834000	-0.15186400	-0.00009600
C	-1.21520000	-1.48506100	-0.00026200
C	-2.60000600	-1.66443000	-0.00029200
C	-3.44326500	-0.56185600	-0.00013300
C	-2.87828300	0.71917700	0.00006700
H	3.50697200	-1.59802200	-0.00011700
H	3.00637100	2.67244000	0.00022700
H	-3.00962600	-2.66658100	-0.00042000
H	-3.50287100	1.60248600	0.00020900
O	-0.42870400	-2.56476700	-0.00036500
H	0.50996500	-2.23257500	-0.00024800
O	0.42730800	2.56378200	-0.00001000
H	-0.51285400	2.22659700	-0.00024300
N	1.56887200	-0.89936000	-0.00015000
N	-1.56434600	0.90233600	0.00008600
C	-4.91908900	-0.79392700	-0.00015600
C	4.91841300	0.79565300	0.00018900
O	5.43883300	1.88588200	0.00030500
O	-5.42698500	-1.88922300	-0.00027500
C	-7.05834000	0.23762000	0.00007500
C	-7.62446900	1.64125600	0.00101800
H	-7.35796100	-0.33301100	0.88218400
H	-7.35813100	-0.33186700	-0.88272300

H	-7.29999200	2.19061100	-0.88528900
H	-8.71640300	1.60025000	0.00105100
H	-7.29989200	2.18945200	0.88800600
C	7.05414300	-0.23936900	0.00017000
C	7.62049400	-1.64396800	-0.00022900
H	7.35758500	0.32987700	0.88247100
H	7.35760900	0.33039900	-0.88178300
H	7.29331000	-2.19207000	-0.88636400
H	8.71293200	-1.60555500	-0.00020900
H	7.29329500	-2.19258800	0.88557900
O	5.61170400	-0.36170000	0.00012300
O	-5.61024900	0.35880300	-0.00000700

The geometric structure coordinates of N* under E_x = +1×10⁻³ a.u.

C	0.70089800	0.15906300	0.00022200
C	2.87414400	-0.69982900	-0.00006800
C	3.45719300	0.59258800	0.00035200
C	2.60378700	1.70492600	0.00073900
C	1.22211000	1.50976700	0.00069800
C	-0.69728600	-0.12636100	0.00004700
C	-1.21418500	-1.48638300	-0.00047000
C	-2.59418300	-1.68769100	-0.00060300
C	-3.45000600	-0.58131800	-0.00025500
C	-2.87693900	0.71014000	0.00020700
H	3.50975500	-1.57648900	-0.00039000
H	3.00580700	2.70916500	0.00107900
H	-2.99348700	-2.69336400	-0.00097100
H	-3.51711700	1.58336100	0.00046900
O	-0.39688200	-2.52537600	-0.00082900
H	0.55523500	-2.14938600	-0.00074200

O	0.41420200	2.55969200	0.00112900
H	-0.53540600	2.19991600	0.00113800
N	1.57244500	-0.90577700	-0.00014900
N	-1.56898100	0.92678200	0.00034200
C	-4.91124100	-0.80376000	-0.00039600
C	4.91174800	0.80068400	0.00038700
O	5.45381100	1.88818300	0.00075600
O	-5.42766300	-1.89989700	-0.00072700
C	-7.04952600	0.23452800	0.00003600
C	-7.61885900	1.63725200	0.00067700
H	-7.35093900	-0.33641900	0.88181800
H	-7.35099100	-0.33563000	-0.88224000
H	-7.29531700	2.18720100	-0.88575800
H	-8.71079100	1.59486100	0.00068500
H	-7.29527300	2.18640700	0.88758800
C	7.03877000	-0.25815200	-0.00001900
C	7.60152300	-1.66505400	-0.00056000
H	7.34945400	0.30950300	0.88161300
H	7.34941100	0.31016600	-0.88123900
H	7.27183000	-2.21217400	-0.88662900
H	8.69431300	-1.63179400	-0.00057000
H	7.27186800	-2.21284000	0.88511200
O	5.60100700	-0.37406100	-0.00002700
O	-5.60440000	0.35716800	0.00004400

The geometric structure coordinates of T1* under $E_x = +1 \times 10^{-3}$ a.u.

C	0.67489700	0.17433700	-0.11307100
C	2.91358100	-0.71494400	-0.13864700
C	3.45260900	0.54508200	0.03293600
C	2.58788300	1.66262800	0.11615400

C	1.20873700	1.48303500	0.03740000
C	-0.74513800	-0.12452900	-0.01304300
C	-1.23263300	-1.50179600	0.15120700
C	-2.62382600	-1.66818600	0.12573500
C	-3.48294600	-0.55988800	0.04047500
C	-2.93161700	0.71170800	-0.04839700
H	3.51825700	-1.60454900	-0.22691600
H	2.99483100	2.65868000	0.21616100
H	-3.03311900	-2.66008300	0.26210600
H	-3.54877700	1.59943300	-0.04806400
O	-0.39349800	-2.46587700	0.26086400
H	1.16176400	-1.80202600	-0.25114000
O	0.41438400	2.55259900	0.09939900
H	-0.52089900	2.23656100	-0.01950100
N	1.58350800	-0.86536700	-0.24787900
N	-1.60452500	0.88845100	-0.12457600
C	-4.94988100	-0.79131600	0.08572100
C	4.91518900	0.75688400	0.09407700
O	5.44054400	1.83732000	0.23895400
O	-5.45753600	-1.88219800	0.20696100
C	-7.09496900	0.22612800	0.01096600
C	-7.67257800	1.61879400	-0.12543700
H	-7.37927600	-0.25113700	0.95192300
H	-7.40562900	-0.43349400	-0.80286100
H	-7.36391700	2.07527100	-1.06837500
H	-8.76416000	1.57178700	-0.10566300
H	-7.34009200	2.25827800	0.69515000
C	7.04930900	-0.28524400	0.04361900
C	7.61795700	-1.68130500	-0.10530200
H	7.32287600	0.17262100	0.99780500

H	7.38492500	0.38478900	-0.75221700
H	7.32374500	-2.11842500	-1.06205800
H	8.70967000	-1.64646200	-0.06205300
H	7.26090700	-2.33158300	0.69633800
O	5.60966100	-0.40200100	-0.02160000
O	-5.65029400	0.35591000	-0.02465600

The geometric structure coordinates of T2* under $E_x = +1 \times 10^{-3}$ a.u.

C	0.74626300	0.15697500	0.03600400
C	2.93033000	-0.69050500	0.06535800
C	3.49453500	0.57804100	-0.01865700
C	2.63882800	1.69371200	-0.09034600
C	1.24870200	1.53302100	-0.11198500
C	-0.66842800	-0.13940600	0.13119000
C	-1.19796200	-1.45579500	-0.00638600
C	-2.57393200	-1.64051300	-0.09464000
C	-3.44614800	-0.53087000	-0.02765000
C	-2.91740700	0.73314500	0.13881200
H	3.54201500	-1.58236700	0.05877300
H	3.05047800	2.68548200	-0.21858400
H	-2.97577200	-2.63923800	-0.19244000
H	-3.52955400	1.61838100	0.22102700
O	-0.40044800	-2.52359800	-0.05478000
H	0.53420300	-2.20095200	0.05527800
O	0.41372200	2.50228500	-0.20335200
H	-1.17960600	1.83303900	0.26913000
N	1.60644000	-0.86328400	0.13933700
N	-1.58729000	0.89345200	0.25170800
C	-4.91080100	-0.76060700	-0.09740200
C	4.95569900	0.79169500	-0.07139700

O	5.48812600	1.87445600	-0.17849000
O	-5.41151800	-1.85205900	-0.23511300
C	-7.05848800	0.25758700	-0.06458400
C	-7.63948500	1.64851900	0.07309600
H	-7.38564000	-0.41051200	0.73559100
H	-7.32095700	-0.20994300	-1.01654900
H	-7.28885700	2.29688600	-0.73284800
H	-8.73016000	1.60099500	0.02708900
H	-7.35446400	2.09507000	1.02820500
C	7.08795000	-0.25210000	-0.03125700
C	7.65488100	-1.65315400	0.07372500
H	7.41673800	0.38857800	0.79140100
H	7.37314400	0.23954200	-0.96523300
H	7.30643100	-2.27364100	-0.75488100
H	8.74719600	-1.61818200	0.04488800
H	7.34797500	-2.12439300	1.01005200
O	5.64935100	-0.37084300	0.01485500
O	-5.61372900	0.38680900	0.00355000

The geometric structure coordinates of T3* in under $E_x = +1 \times 10^{-3}$ a.u.

C	0.68805300	0.17187300	0.00018500
C	2.92406300	-0.69889800	-0.00021900
C	3.47167200	0.58712600	0.00035600
C	2.61614900	1.69682100	0.00085100
C	1.20168000	1.54601800	0.00075900
C	-0.68571400	-0.15943400	0.00004200
C	-1.19712300	-1.53464000	-0.00050300
C	-2.61149800	-1.68431800	-0.00055500
C	-3.46577800	-0.57649900	-0.00006300
C	-2.92260600	0.70910900	0.00046700

H	3.53184900	-1.59113100	-0.00058200
H	3.02554600	2.69818800	0.00133600
H	-3.02296800	-2.68503200	-0.00100400
H	-3.53235300	1.60012200	0.00082000
O	-0.39917700	-2.51885600	-0.00093600
H	1.13065500	-1.80072500	-0.00068500
O	0.40369300	2.52986900	0.00119100
H	-1.12624400	1.81201500	0.00093200
N	1.59866800	-0.86527900	-0.00027000
N	-1.59429700	0.87669100	0.00049800
C	-4.93550000	-0.79138300	-0.00016400
C	4.93608800	0.79229400	0.00048700
O	5.47606300	1.87570900	0.00096200
O	-5.45662500	-1.88168600	-0.00056000
C	-7.06712200	0.26245800	0.00019100
C	-7.62477500	1.66972600	0.00029800
H	-7.37200700	-0.30548300	0.88242300
H	-7.37199500	-0.30530300	-0.88215900
H	-7.29731700	2.21676000	-0.88651900
H	-8.71696800	1.63588600	0.00020300
H	-7.29744100	2.21663900	0.88722800
C	7.05981900	-0.27467300	0.00003200
C	7.61375400	-1.68466600	-0.00073600
H	7.37137100	0.29097300	0.88218200
H	7.37131800	0.29197400	-0.88149400
H	7.28182900	-2.22982400	-0.88712800
H	8.70658200	-1.65695900	-0.00079700
H	7.28196900	-2.23071400	0.88516900
O	5.61871300	-0.38232400	0.00001600
O	-5.61957800	0.37357400	0.00023500

The geometric structure coordinates of TS* of N*-T1* path under $E_x = +1 \times 10^{-3}$ a.u.

C	0.69194058	0.23873809	-0.01305923
C	2.85456958	-0.68898191	0.01227577
C	3.45271158	0.58936509	-0.04099123
C	2.61642658	1.72121209	-0.08120823
C	1.23104858	1.56057109	-0.06780323
C	-0.71671142	-0.05686491	0.00574777
C	-1.18599542	-1.44234991	0.06267477
C	-2.56648842	-1.67465991	0.07893477
C	-3.44666442	-0.58582391	0.04068677
C	-2.90902442	0.71067409	-0.01317923
H	3.46121158	-1.58404291	0.04433977
H	3.04384858	2.71389209	-0.12240823
H	-2.94321242	-2.68821991	0.12067377
H	-3.56666942	1.56967209	-0.04371923
O	-0.31734742	-2.41458091	0.09648977
H	0.72451658	-1.88965991	0.07036577
O	0.44421358	2.63468109	-0.10600723
H	-0.50009542	2.31280409	-0.08850323
N	1.54651858	-0.84353691	0.02507177
N	-1.59137842	0.96573509	-0.02999823
C	-4.90603242	-0.84214791	0.05833177
C	4.90971158	0.77093809	-0.05549423
O	5.47212458	1.84748809	-0.10038923
O	-5.39323142	-1.94929891	0.10418677
C	-7.06868742	0.14348509	0.03123877
C	-7.66983842	1.53180709	-0.01887023
H	-7.35120042	-0.39939191	0.93650377
H	-7.36068542	-0.46713791	-0.82661923

H	-7.36440742	2.05398109	-0.92818723
H	-8.76044542	1.46432109	-0.00990323
H	-7.35406042	2.12233909	0.84389877
C	7.01739658	-0.32632491	-0.02349023
C	7.55505958	-1.74213191	0.02864577
H	7.34311658	0.26949809	0.83378277
H	7.33398658	0.20115509	-0.92767223
H	7.21110158	-2.31749891	-0.83382323
H	8.64825758	-1.72878591	0.02247377
H	7.22024058	-2.24885991	0.93657277
O	5.57814958	-0.41632191	-0.01252723
O	-5.62565342	0.29925409	0.01747877

The geometric structure coordinates of TS* of T1*-T3* path under $E_x = +1 \times 10^{-3}$ a.u.

C	0.70230309	0.10639166	-0.07436620
C	2.91619209	-0.75022934	0.19866480
C	3.47120209	0.49435266	-0.11722120
C	2.62326509	1.57335366	-0.41914020
C	1.22287609	1.41188966	-0.40594020
C	-0.70217091	-0.15525434	-0.03961220
C	-1.28236191	-1.45739334	0.28729980
C	-2.69756291	-1.52694234	0.27343480
C	-3.47182591	-0.39862234	-0.04021720
C	-2.83460191	0.80705866	-0.34103220
H	3.51987509	-1.61224234	0.43892280
H	3.04234109	2.53998966	-0.66389020
H	-3.17847591	-2.46753234	0.50753380
H	-3.39112691	1.69976466	-0.58788820
O	-0.52278691	-2.44040634	0.56206580
H	1.11550609	-1.80149934	0.43543580

O	0.40537309	2.37860566	-0.67660920
H	-0.71454291	1.85972066	-0.56598220
N	1.59407509	-0.90503934	0.21159780
N	-1.49386291	0.90717266	-0.33542620
C	-4.95118591	-0.51879334	-0.04428420
C	4.93540809	0.69437466	-0.13837620
O	5.47877309	1.74399066	-0.40304720
O	-5.54149091	-1.54354334	0.21113780
C	-7.00830991	0.64196866	-0.38856320
C	-7.57803791	0.79737366	1.01144880
H	-7.34839791	-0.28454434	-0.85405120
H	-7.26611991	1.48652466	-1.02740020
H	-7.19269291	1.70299266	1.48563080
H	-8.66780791	0.87056866	0.96165480
H	-7.31822691	-0.06608434	1.62504880
C	7.05386909	-0.33543334	0.17797180
C	7.60114109	-1.69710834	0.55349280
H	7.34910309	0.43946066	0.89036380
H	7.38612809	-0.01565134	-0.81327120
H	7.28413709	-2.45347434	-0.16795320
H	8.69384509	-1.66954434	0.56791180
H	7.24994709	-1.99522334	1.54386080
O	5.61227709	-0.44077234	0.17468380
O	-5.55553291	0.64641566	-0.36802820

The geometric structure coordinates of TS* of N*-T2* path under $E_x = +1 \times 10^{-3}$ a.u.

C	0.71198721	0.07201022	0.01102986
C	2.90021821	-0.70715178	-0.02663314
C	3.44615221	0.59183922	0.07425186
C	2.56736321	1.68186722	0.14662086

C	1.18577421	1.45213922	0.11714186
C	-0.68545479	-0.21878978	-0.02284114
C	-1.22549279	-1.54421878	-0.12550014
C	-2.60934879	-1.70502578	-0.14973714
C	-3.44461879	-0.57838178	-0.07390114
C	-2.85412579	0.69718522	0.02557686
H	3.55941921	-1.56401178	-0.08394514
H	2.94356921	2.69316322	0.22460586
H	-3.03753979	-2.69557578	-0.22665414
H	-3.46564479	1.58755922	0.08600386
O	-0.43370979	-2.61042678	-0.19714314
H	0.51158921	-2.28102478	-0.16429014
O	0.32000121	2.42490222	0.18105786
H	-0.72524379	1.90260222	0.13330886
N	1.59342021	-0.95927078	-0.05715914
N	-1.54314879	0.85843022	0.04906786
C	-4.90869179	-0.76929178	-0.10079114
C	4.89862121	0.83348022	0.10530586
O	5.41058821	1.93053022	0.19056286
O	-5.44914979	-1.85085778	-0.18582014
C	-7.02537179	0.31133022	-0.03854414
C	-7.56662179	1.72173722	0.06133086
H	-7.34627379	-0.31623078	0.79667086
H	-7.33134379	-0.18595878	-0.96238714
H	-7.22457279	2.32851422	-0.77997714
H	-8.65916479	1.70224622	0.05067786
H	-7.23949279	2.19754422	0.98845786
C	7.05130421	-0.17031078	0.05143386
C	7.64688221	-1.56011078	-0.04470914
H	7.33907721	0.33882622	0.97534386

H	7.35537721	0.46746222	-0.78309514
H	7.33873321	-2.04891178	-0.97163614
H	8.73846021	-1.50148878	-0.03033314
H	7.32240721	-2.17812778	0.79543386
O	5.61551821	-0.31925378	0.02723686
O	-5.57871279	0.40399322	-0.01937514

The geometric structure coordinates of TS* of T2*-T3* path under $E_x = +1 \times 10^{-3}$ a.u.

C	0.70336400	0.27817506	0.13301560
C	2.83560300	-0.68141994	-0.19632040
C	3.48146500	0.51368106	0.14483060
C	2.70793700	1.63355106	0.49310560
C	1.29142100	1.56634406	0.50241160
C	-0.69510300	0.01746606	0.08619060
C	-1.21355100	-1.28067594	-0.28834740
C	-2.61281000	-1.44515994	-0.30834540
C	-3.46411500	-0.38175894	0.02600260
C	-2.91797100	0.85301606	0.38141260
H	3.38961000	-1.56777994	-0.47119140
H	3.18743400	2.56606806	0.75935260
H	-3.02910600	-2.40471894	-0.58444340
H	-3.52769700	1.70345306	0.64682460
O	-0.39507000	-2.23712494	-0.58913540
H	0.72851900	-1.71829494	-0.45910040
O	0.53824600	2.54344806	0.80782960
H	-1.12928100	1.90679606	0.65587460
N	1.50087400	-0.77857994	-0.19706440
N	-1.59347400	1.01520406	0.40151760
C	-4.93301700	-0.59420894	-0.00498440
C	4.95443000	0.62001406	0.14603760

O	5.56970300	1.62418106	0.43122960
O	-5.45066500	-1.64450194	-0.30788740
C	-7.06393700	0.42681306	0.33773960
C	-7.61621500	0.59684306	-1.06728240
H	-7.38326900	1.23103806	1.00018160
H	-7.35371700	-0.53462094	0.76464960
H	-7.29267900	-0.22649894	-1.70527940
H	-8.70907200	0.60076306	-1.03654340
H	-7.28017800	1.54102606	-1.50201540
C	7.00004100	-0.52717894	-0.23579240
C	7.45750000	-1.90941394	-0.65490840
H	7.36727100	-0.25463894	0.75735960
H	7.33294500	0.24651306	-0.93296640
H	7.07126900	-2.16014994	-1.64536940
H	8.54952000	-1.94800394	-0.68918240
H	7.10676700	-2.66351794	0.05317960
O	5.55635700	-0.54513894	-0.21175240
O	-5.61254000	0.51952406	0.34629560

The geometric structure coordinates of N under $E_x = +2 \times 10^{-3}$ a.u.

C	0.72230300	0.15223100	0.00006100
C	2.88526400	-0.71183600	-0.00006700
C	3.44836000	0.56851800	0.00008100
C	2.60061400	1.67139000	0.00023400
C	1.21718800	1.48956200	0.00023200
C	-0.71679400	-0.15140700	0.00001700
C	-1.21459600	-1.48332600	-0.00015200
C	-2.59986100	-1.66181600	-0.00016100
C	-3.44169700	-0.55927700	-0.00001600
C	-2.87584400	0.72204500	0.00013300

H	3.50909100	-1.59577500	-0.00018500
H	3.00512800	2.67546200	0.00036000
H	-3.01121800	-2.66331500	-0.00028600
H	-3.50070800	1.60515700	0.00024500
O	-0.42935100	-2.56480500	-0.00031500
H	0.50866900	-2.23493300	-0.00031400
O	0.42686900	2.56351000	0.00040200
H	-0.51417400	2.22384100	0.00040600
N	1.57122100	-0.89777200	-0.00007600
N	-1.56201300	0.90429600	0.00014800
C	-4.91939200	-0.79269800	-0.00002900
C	4.91828700	0.79649700	0.00008600
O	5.44504300	1.88409900	0.00024700
O	-5.42092200	-1.89060400	-0.00018600
C	-7.06086000	0.23648000	0.00001800
C	-7.62736900	1.63942200	0.00072500
H	-7.35837900	-0.33443400	0.88237000
H	-7.35841800	-0.33353900	-0.88290500
H	-7.30439900	2.18897100	-0.88599000
H	-8.71907500	1.59673300	0.00069200
H	-7.30441300	2.18806500	0.88800600
C	7.05226900	-0.24061700	0.00001100
C	7.61873700	-1.64570800	-0.00034100
H	7.35771800	0.32836400	0.88212500
H	7.35771000	0.32881000	-0.88181500
H	7.29029000	-2.19365700	-0.88612600
H	8.71146800	-1.60847600	-0.00033800
H	7.29030200	-2.19410100	0.88517400
O	5.61260400	-0.36337700	-0.00000900
O	-5.60981200	0.35762500	0.00003100

The geometric structure coordinates of N* under E_x = +2×10⁻³ a.u.

C	0.70493400	0.17763100	0.00024900
C	2.87398400	-0.69402800	0.00015300
C	3.46281800	0.59798100	0.00036300
C	2.61077800	1.71342700	0.00052000
C	1.22774100	1.52203600	0.00046900
C	-0.69762200	-0.10869200	0.00016500
C	-1.21087100	-1.47277600	-0.00002700
C	-2.59053300	-1.67796200	-0.00011300
C	-3.44822600	-0.57498800	-0.00001600
C	-2.88028300	0.71540900	0.00016500
H	3.50546900	-1.57362000	0.00002800
H	3.01457200	2.71679500	0.00068700
H	-2.98796000	-2.68456800	-0.00025400
H	-3.52177200	1.58753600	0.00024500
O	-0.38853900	-2.50588800	-0.00012500
H	0.56551800	-2.12074000	-0.00004000
O	0.42561700	2.57885300	0.00063900
H	-0.52235000	2.22926400	0.00060800
N	1.57393700	-0.89209900	0.00010100
N	-1.56750400	0.93675800	0.00025000
C	-4.91283400	-0.80559200	-0.00010700
C	4.91417000	0.79889500	0.00042000
O	5.46921800	1.88209200	0.00039500
O	-5.41557000	-1.90645300	-0.00020400
C	-7.05736900	0.22155400	0.00007600
C	-7.63098300	1.62176500	0.00031400
H	-7.35383400	-0.35059700	0.88234300
H	-7.35386300	-0.35030800	-0.88236800

H	-7.31098700	2.17273900	-0.88669800
H	-8.72248300	1.57392700	0.00032200
H	-7.31096100	2.17244900	0.88749800
C	7.03528100	-0.27128800	-0.00022800
C	7.59457700	-1.68034800	-0.00069700
H	7.35094000	0.29509000	0.88100100
H	7.35062800	0.29555200	-0.88127100
H	7.26171200	-2.22648000	-0.88627000
H	8.68783800	-1.65171800	-0.00088100
H	7.26202400	-2.22694500	0.88470800
O	5.60112500	-0.38349800	0.00000000
O	-5.60849700	0.34844100	0.00007200

The geometric structure coordinates of T1* under $E_x = +2 \times 10^{-3}$ a.u.

C	0.67745900	0.18705700	0.10747300
C	2.91207700	-0.70820200	0.13469900
C	3.45598100	0.55129600	-0.03172000
C	2.59308300	1.67188100	-0.11659400
C	1.21314400	1.49429700	-0.04238900
C	-0.74422400	-0.11283700	0.00573500
C	-1.22636400	-1.49058100	-0.16122100
C	-2.61835500	-1.65796700	-0.13821700
C	-3.47832100	-0.55234500	-0.05031900
C	-2.93155200	0.72069800	0.03990200
H	3.51327100	-1.60035100	0.22054400
H	3.00171900	2.66752800	-0.21282500
H	-3.02701300	-2.64992600	-0.27678500
H	-3.55061800	1.60696100	0.04070100
O	-0.38578600	-2.45344900	-0.27114500
H	1.15424200	-1.79024900	0.23662900

O	0.41947600	2.56410000	-0.10397800
H	-0.51651800	2.24916100	0.01405500
N	1.58249000	-0.85473300	0.24019500
N	-1.60360300	0.89784500	0.11797500
C	-4.94784500	-0.79053100	-0.09470300
C	4.91675600	0.75610500	-0.08764700
O	5.45338900	1.83228300	-0.23078100
O	-5.44471300	-1.88468100	-0.22355300
C	-7.09815000	0.21664100	-0.00804700
C	-7.67974700	1.60565100	0.14159300
H	-7.40229700	-0.45124300	0.80111100
H	-7.38074800	-0.25385300	-0.95260700
H	-7.35291700	2.25344600	-0.67469000
H	-8.77096000	1.55374100	0.12400500
H	-7.37166500	2.05520000	1.08799800
C	7.04523100	-0.29618600	-0.03375300
C	7.60941200	-1.69471800	0.11464600
H	7.38453800	0.37173200	0.76274300
H	7.32366000	0.16122200	-0.98712000
H	7.24988700	-2.34289800	-0.68762400
H	8.70159500	-1.66465700	0.07278400
H	7.31136900	-2.13159900	1.07036200
O	5.60827100	-0.40865300	0.02978800
O	-5.65040000	0.35038200	0.02526700

The geometric structure coordinates of T2* under $E_x = +2 \times 10^{-3}$ a.u.

C	0.74672900	0.17476100	0.04511200
C	2.92904900	-0.68004600	0.07447500
C	3.50126000	0.58661700	-0.01178700
C	2.64772800	1.70620700	-0.08003400

C	1.25803700	1.54903200	-0.09763600
C	-0.66517000	-0.11970600	0.13843700
C	-1.19318100	-1.44116900	0.01844300
C	-2.56756700	-1.62856700	-0.07131500
C	-3.44343000	-0.52263600	-0.02061600
C	-2.91893100	0.74462700	0.13126100
H	3.53762600	-1.57428000	0.06837800
H	3.06113800	2.69728900	-0.20698000
H	-2.96722000	-2.62933400	-0.15917900
H	-3.53396800	1.62887400	0.20299000
O	-0.39446900	-2.50856400	-0.01509900
H	0.54020000	-2.18187900	0.08508800
O	0.42561700	2.52155400	-0.17947600
H	-1.18658100	1.85108200	0.25948600
N	1.60727700	-0.84971300	0.14752800
N	-1.58866400	0.91000700	0.24231300
C	-4.90913600	-0.76193700	-0.09085800
C	4.95920200	0.78993700	-0.06938500
O	5.50524200	1.86766700	-0.17388400
O	-5.39758300	-1.85984900	-0.21543500
C	-7.06352800	0.24470200	-0.07248200
C	-7.65046100	1.63403300	0.04909000
H	-7.38561200	-0.41593400	0.73554300
H	-7.32139000	-0.23518200	-1.01924300
H	-7.30394900	2.27491300	-0.76455000
H	-8.74065600	1.57975500	0.00330400
H	-7.36914800	2.09287700	0.99942000
C	7.08419300	-0.26859900	-0.04246400
C	7.64495300	-1.67352600	0.05248700
H	7.42247400	0.36559600	0.78186800

H	7.37040700	0.22622600	-0.97486200
H	7.28834200	-2.28758800	-0.77748500
H	8.73762900	-1.64520400	0.01895700
H	7.33858600	-2.14817400	0.98732700
O	5.64866300	-0.38086600	0.00925200
O	-5.61599000	0.38058000	-0.00549800

The geometric structure coordinates of T3* in under $E_x = +2 \times 10^{-3}$ a.u.

C	0.68943000	0.17810600	-0.00049100
C	2.92460600	-0.69387900	-0.00068800
C	3.47502800	0.59254500	-0.00016900
C	2.61869900	1.70284200	0.00016500
C	1.20399300	1.55157700	0.00007800
C	-0.68490400	-0.15327500	-0.00065400
C	-1.19502500	-1.52882800	-0.00113800
C	-2.60950800	-1.67789800	-0.00078700
C	-3.46328200	-0.57123800	-0.00033300
C	-2.92183200	0.71433200	-0.00006300
H	3.53118100	-1.58687800	-0.00100000
H	3.02701200	2.70458900	0.00054700
H	-3.02202900	-2.67830800	-0.00098300
H	-3.53237600	1.60487000	0.00025000
O	-0.39703500	-2.51314100	-0.00179400
H	1.13267300	-1.79474500	-0.00123700
O	0.40600100	2.53518700	0.00046300
H	-1.12399300	1.81744800	0.00016600
N	1.60074700	-0.85917600	-0.00083600
N	-1.59216300	0.88209700	-0.00019400
C	-4.93554900	-0.79096600	-0.00009600
C	4.93666800	0.79291600	0.00003600

O	5.48621200	1.87300000	0.00053900
O	-5.44735500	-1.88475800	-0.00021400
C	-7.07118300	0.25641000	0.00073900
C	-7.63101700	1.66218600	0.00130000
H	-7.37233500	-0.31258000	0.88323900
H	-7.37298600	-0.31212500	-0.88182900
H	-7.30596800	2.21027200	-0.88571000
H	-8.72291800	1.62495100	0.00116700
H	-7.30613900	2.20958500	0.88879500
C	7.05651900	-0.28094900	-0.00010200
C	7.60889400	-1.69220200	0.00090400
H	7.37117600	0.28498300	0.88119100
H	7.37163100	0.28377000	-0.88204200
H	7.27514500	-2.23774000	-0.88462600
H	8.70207600	-1.66731000	0.00107900
H	7.27480000	-2.23663500	0.88697600
O	5.61863200	-0.38700000	-0.00043300
O	-5.62039000	0.36950400	0.00027300

The geometric structure coordinates of TS* of N*-T1* path under $E_x = +2 \times 10^{-3}$ a.u.

C	0.69686918	0.24774495	0.00004841
C	2.85342918	-0.69221205	-0.00018159
C	3.45944518	0.58536195	0.00008841
C	2.62567618	1.72144395	0.00034441
C	1.23883018	1.56554395	0.00032741
C	-0.72071682	-0.04725405	0.00000141
C	-1.18996082	-1.43299605	-0.00029159
C	-2.57092882	-1.66348605	-0.00032659
C	-3.44967082	-0.57338005	-0.00008259
C	-2.91303882	0.72015295	0.00019241

H	3.45388618	-1.59186105	-0.00038459
H	3.05573118	2.71374695	0.00055441
H	-2.95027682	-2.67710105	-0.00054159
H	-3.56728282	1.58203295	0.00038541
O	-0.32194782	-2.40660105	-0.00051159
H	0.72136218	-1.88079105	-0.00041159
O	0.45781818	2.64599995	0.00057041
H	-0.48684282	2.33137295	0.00051341
N	1.54550218	-0.83782805	-0.00019759
N	-1.58841682	0.97271095	0.00023241
C	-4.91297982	-0.83410005	-0.00012359
C	4.91354118	0.75875395	0.00010741
O	5.48965918	1.83125095	0.00033441
O	-5.39011382	-1.94520005	-0.00035759
C	-7.07878282	0.14691295	0.00010841
C	-7.68015282	1.53530795	0.00040841
H	-7.36287882	-0.43097305	0.88253041
H	-7.36289482	-0.43059805	-0.88255259
H	-7.37142782	2.09261095	-0.88660259
H	-8.77044382	1.46538195	0.00040341
H	-7.37141082	2.09223495	0.88764941
C	7.01389618	-0.35243805	-0.00016359
C	7.54640518	-1.77188505	-0.00048059
H	7.34035818	0.20769995	0.88109141
H	7.34033318	0.20808395	-0.88118259
H	7.20342018	-2.31168005	-0.88609759
H	8.64000918	-1.76415905	-0.00049459
H	7.20344518	-2.31206605	0.88491041
O	5.57802218	-0.43743305	-0.00016259
O	-5.63177082	0.30330295	0.00012841

The geometric structure coordinates of TS* of T1*-T3* path under $E_x = +2 \times 10^{-3}$ a.u.

C	0.69754992	0.08595497	-0.00040957
C	2.94009592	-0.73206003	0.00491743
C	3.45031692	0.57261897	-0.00369457
C	2.56050392	1.66161497	-0.01082957
C	1.16625292	1.45008097	-0.00938957
C	-0.70004208	-0.22999703	0.00159743
C	-1.22335008	-1.59459803	0.01048543
C	-2.63477308	-1.71445203	0.01122743
C	-3.45471908	-0.57558803	0.00375843
C	-2.87046008	0.69051997	-0.00448757
H	3.57487492	-1.60499703	0.01066043
H	2.94204692	2.67364397	-0.01748057
H	-3.07875408	-2.70134303	0.01763143
H	-3.46326908	1.59388997	-0.01043057
O	-0.42102908	-2.58310303	0.01696743
H	1.17526592	-1.87167703	0.01243543
O	0.31045792	2.42156997	-0.01574357
H	-0.78731708	1.84986097	-0.01199557
N	1.62569292	-0.93116603	0.00628343
N	-1.53077108	0.83875397	-0.00539557
C	-4.93200908	-0.75600703	0.00484743
C	4.90345992	0.82128597	-0.00536757
O	5.41627492	1.92026197	-0.01257557
O	-5.47255908	-1.83666703	0.01184343
C	-7.04080508	0.34238897	-0.00244157
C	-7.56635308	1.76144697	-0.01154757
H	-7.35682208	-0.21310803	0.88352043
H	-7.35670408	-0.22439003	-0.88127257

H	-7.22751008	2.29533097	-0.90204157
H	-8.65887308	1.75118397	-0.01155957
H	-7.22763608	2.30666497	0.87210043
C	7.05723792	-0.18247703	0.00110843
C	7.65579992	-1.57469903	0.01001743
H	7.35323292	0.39860597	0.87900843
H	7.35313892	0.38728197	-0.88421257
H	7.34007392	-2.13605303	-0.87223557
H	8.74753392	-1.51365703	0.00956443
H	7.34017392	-2.12468103	0.89943943
O	5.62350792	-0.33578403	0.00216943
O	-5.58846708	0.42049397	-0.00284957

The geometric structure coordinates of TS* of N*-T2* path under $E_x = +2 \times 10^{-3}$ a.u.

C	0.71117832	0.07815086	0.00000484
C	2.89615432	-0.71099214	-0.00017316
C	3.44836532	0.59341986	0.00005784
C	2.57146332	1.68825386	0.00027184
C	1.18844532	1.45954686	0.00025084
C	-0.68392668	-0.21078814	-0.00002716
C	-1.22672168	-1.54141914	-0.00026316
C	-2.61057668	-1.70088014	-0.00027216
C	-3.44313368	-0.57191114	-0.00005316
C	-2.85312368	0.70614886	0.00017184
H	3.55416832	-1.57084614	-0.00034116
H	2.94879032	2.70201186	0.00045184
H	-3.04140668	-2.69347314	-0.00044816
H	-3.46420468	1.59887186	0.00034384
O	-0.43509568	-2.60919614	-0.00046916
H	0.51121232	-2.27705114	-0.00042316

O	0.32554932	2.43670386	0.00044384
H	-0.72316268	1.91351286	0.00036384
N	1.59316532	-0.96097114	-0.00019916
N	-1.53967168	0.86805386	0.00018184
C	-4.91119668	-0.76664314	-0.00006816
C	4.89789032	0.82866886	0.00007884
O	5.42322432	1.92480686	0.00027284
O	-5.44300768	-1.85427714	-0.00025916
C	-7.03037368	0.31243986	0.00016084
C	-7.57103468	1.72587886	0.00042384
H	-7.34103068	-0.25233714	0.88232684
H	-7.34105768	-0.25201914	-0.88220016
H	-7.23798268	2.26918886	-0.88656816
H	-8.66338668	1.70413886	0.00043684
H	-7.23795668	2.26886886	0.88760284
C	7.04481032	-0.18819214	-0.00014216
C	7.63668132	-1.58364914	-0.00040516
H	7.34557432	0.38556886	0.88127684
H	7.34554632	0.38588786	-0.88136216
H	7.31720432	-2.13749614	-0.88606716
H	8.72888132	-1.52893014	-0.00041316
H	7.31723332	-2.13781714	0.88506584
O	5.61234432	-0.33439914	-0.00014516
O	-5.57969868	0.40533286	0.00015684

The geometric structure coordinates of TS* of T2*-T3* path under $E_x = +2 \times 10^{-3}$ a.u.

C	0.69315597	0.26828517	0.00082379
C	2.86179997	-0.66868283	-0.00203321
C	3.46598297	0.59783717	0.00170279
C	2.64913297	1.74142717	0.00512979

C	1.23470897	1.62764917	0.00483879
C	-0.69248503	-0.04777483	-0.00006821
C	-1.15883203	-1.41928183	-0.00414621
C	-2.55081803	-1.63617483	-0.00477321
C	-3.44478103	-0.55729483	-0.00154921
C	-2.95097703	0.74733017	0.00233579
H	3.44886797	-1.57623683	-0.00475521
H	3.09132197	2.72868917	0.00803879
H	-2.92869403	-2.64998983	-0.00778321
H	-3.59572303	1.61340317	0.00492879
O	-0.30284903	-2.38968183	-0.00704921
H	0.80290697	-1.81079883	-0.00535421
O	0.44693397	2.62419217	0.00782279
H	-1.20893003	1.90639117	0.00575879
N	1.53439097	-0.81008183	-0.00240121
N	-1.63176003	0.96128717	0.00296179
C	-4.90716603	-0.83243583	-0.00234721
C	4.93105697	0.74825517	0.00207979
O	5.51838297	1.80988317	0.00519979
O	-5.37523903	-1.94604483	-0.00562921
C	-7.08125803	0.13323317	0.00051779
C	-7.69341803	1.51688117	0.00451879
H	-7.36057703	-0.44907283	0.88147279
H	-7.36057803	-0.44396983	-0.88378821
H	-7.38960103	2.07902617	-0.88118721
H	-8.78310203	1.43833617	0.00428979
H	-7.38960503	2.07389717	0.89346079
C	7.01523197	-0.39252683	-0.00142421
C	7.52339497	-1.82051983	-0.00563621
H	7.34893597	0.15990517	0.88162879

H	7.34883197	0.16506717	-0.88126621
H	7.17193897	-2.35213983	-0.89278421
H	8.61689497	-1.83039783	-0.00573221
H	7.17204797	-2.35732383	0.87842779
O	5.57601697	-0.45379383	-0.00152121
O	-5.63506603	0.30065317	0.00100179

The geometric structure coordinates of N under $E_x = +3 \times 10^{-3}$ a.u.

C	0.72355200	0.15250200	0.00003100
C	2.88756300	-0.70942800	0.00012100
C	3.45025900	0.57074000	0.00028300
C	2.60098300	1.67384600	0.00029200
C	1.21803100	1.49127300	0.00015300
C	-0.71513100	-0.15071700	-0.00004400
C	-1.21392900	-1.48142100	-0.00018900
C	-2.59965100	-1.65899500	-0.00029100
C	-3.44011300	-0.55646400	-0.00022800
C	-2.87327600	0.72520400	-0.00004900
H	3.51113900	-1.59361300	0.00010000
H	3.00391800	2.67851600	0.00038800
H	-3.01277800	-2.65983000	-0.00040600
H	-3.49846300	1.60810100	0.00001400
O	-0.42979800	-2.56450200	-0.00020700
H	0.50761500	-2.23679500	-0.00005200
O	0.42631700	2.56308800	0.00010400
H	-0.51556300	2.22061000	-0.00011200
N	1.57355700	-0.89626600	0.00000500
N	-1.55957400	0.90657500	0.00003900
C	-4.91965100	-0.79126900	-0.00034400
C	4.91817800	0.79726300	0.00042600

O	5.45130400	1.88222300	0.00037100
O	-5.41478800	-1.89177500	-0.00030700
C	-7.06351600	0.23527200	0.00010400
C	-7.63072300	1.63739200	0.00089100
H	-7.35863200	-0.33611900	0.88268600
H	-7.35890500	-0.33522300	-0.88297100
H	-7.30961800	2.18733500	-0.88623700
H	-8.72219900	1.59270600	0.00101400
H	-7.30938000	2.18643000	0.88849500
C	7.05057200	-0.24201500	0.00003000
C	7.61716400	-1.64759400	-0.00041800
H	7.35809000	0.32664600	0.88197800
H	7.35788800	0.32713100	-0.88167400
H	7.28740800	-2.19534300	-0.88586100
H	8.71023200	-1.61151500	-0.00053100
H	7.28760900	-2.19582900	0.88479900
O	5.61360000	-0.36520000	0.00016600
O	-5.60945200	0.35666200	-0.00007500

The geometric structure coordinates of N* under $E_x = +3 \times 10^{-3}$ a.u.

C	0.71053000	0.19594300	0.00009600
C	2.87470300	-0.68862900	-0.00005800
C	3.46983500	0.60224500	0.00016000
C	2.61913500	1.72063500	0.00036500
C	1.23466600	1.53366800	0.00034400
C	-0.69941200	-0.09156900	0.00003700
C	-1.20883600	-1.45864500	-0.00022100
C	-2.58838300	-1.66763400	-0.00024700
C	-3.44811200	-0.56780400	-0.00004000
C	-2.88474800	0.72084300	0.00018600

H	3.50091200	-1.57187600	-0.00021600
H	3.02513000	2.72300000	0.00054600
H	-2.98384600	-2.67521400	-0.00043300
H	-3.52659800	1.59254700	0.00035200
O	-0.38199400	-2.48666200	-0.00044600
H	0.57364400	-2.09361100	-0.00044700
O	0.43876800	2.59798400	0.00057300
H	-0.50744100	2.25957600	0.00056800
N	1.57518500	-0.87741200	-0.00008900
N	-1.56601400	0.94582100	0.00022300
C	-4.91602700	-0.80664200	-0.00007400
C	4.91819500	0.79647000	0.00018300
O	5.48601900	1.87562300	0.00035100
O	-5.40497400	-1.91231800	-0.00024000
C	-7.06722000	0.20872500	0.00020600
C	-7.64582200	1.60610400	0.00051100
H	-7.35840500	-0.36503800	0.88280100
H	-7.35847200	-0.36468100	-0.88260000
H	-7.32975100	2.15853800	-0.88692600
H	-8.73688000	1.55221200	0.00054100
H	-7.32968500	2.15817800	0.88814800
C	7.03391500	-0.28413800	-0.00008500
C	7.59059400	-1.69500700	-0.00037500
H	7.35386900	0.28111300	0.88088400
H	7.35381600	0.28145500	-0.88085400
H	7.25520300	-2.24029400	-0.88559600
H	8.68433700	-1.67033800	-0.00040300
H	7.25525600	-2.24063700	0.88465500
O	5.60326800	-0.39346800	-0.00006300
O	-5.61452400	0.34053700	0.00017600

The geometric structure coordinates of T1* under $E_x = +3 \times 10^{-3}$ a.u.

C	0.67957600	0.19592100	-0.10261500
C	2.91148400	-0.70268100	-0.12733100
C	3.45960500	0.55676700	0.03408400
C	2.59628400	1.67916300	0.11978700
C	1.21659400	1.50316300	0.04789600
C	-0.74291900	-0.10528300	-0.00325100
C	-1.22201900	-1.48458900	0.15317600
C	-2.61473000	-1.65127400	0.13344400
C	-3.47468800	-0.54688800	0.05188900
C	-2.93108200	0.72800500	-0.03020400
H	3.50951900	-1.59723100	-0.20980700
H	3.00551700	2.67476700	0.21368300
H	-3.02352200	-2.64409100	0.26590300
H	-3.55127100	1.61337600	-0.02570300
O	-0.38047900	-2.44806600	0.25126100
H	1.14861000	-1.78071500	-0.22592800
O	0.42250100	2.57239900	0.10817600
H	-0.51415600	2.25743300	-0.00689400
N	1.58281100	-0.84593600	-0.22985800
N	-1.60274500	0.90432000	-0.10817500
C	-4.94685700	-0.79039000	0.09480700
C	4.91767800	0.75650900	0.08645300
O	5.46440000	1.82908000	0.22899400
O	-5.43413500	-1.88802500	0.22475600
C	-7.10142100	0.20943500	0.00474400
C	-7.68574200	1.59635400	-0.14768900
H	-7.38194200	-0.26070500	0.94981000
H	-7.40046100	-0.46060100	-0.80419100

H	-7.37874400	2.04540200	-1.09464000
H	-8.77663000	1.54043100	-0.13157000
H	-7.36322100	2.24629400	0.66855800
C	7.04189600	-0.30359900	0.03128200
C	7.60375100	-1.70373000	-0.11682000
H	7.32353900	0.15307500	0.98446400
H	7.38509700	0.36314500	-0.76502000
H	7.30365400	-2.14014600	-1.07214900
H	8.69633500	-1.67698400	-0.07499800
H	7.24169700	-2.35084000	0.68522300
O	5.60791100	-0.41365600	-0.03241900
O	-5.65041400	0.34591100	-0.02663300

The geometric structure coordinates of T2* under $E_x = +3 \times 10^{-3}$ a.u.

C	0.74728400	0.19188400	-0.05286800
C	2.92736600	-0.66894800	-0.08046600
C	3.50761200	0.59705300	0.00397400
C	2.65572500	1.71964800	0.06568000
C	1.26517500	1.56494400	0.07966200
C	-0.66237600	-0.10249100	-0.14272400
C	-1.18829700	-1.42823100	-0.03791400
C	-2.56180800	-1.61803700	0.05344500
C	-3.44066300	-0.51635100	0.01679600
C	-2.91953500	0.75426500	-0.12144500
H	3.53383100	-1.56487100	-0.07228800
H	3.06968700	2.71098300	0.18833100
H	-2.95951700	-2.62062800	0.13222300
H	-3.53738400	1.63743300	-0.18356800
O	-0.38860700	-2.49482600	-0.01794900
H	0.54633400	-2.16414400	-0.10870400

O	0.43659500	2.54105400	0.14849800
H	-1.18977900	1.86621500	-0.24323000
N	1.60772900	-0.83772400	-0.15168600
N	-1.58957800	0.92398300	-0.23007100
C	-4.90764600	-0.76468300	0.08661500
C	4.96220600	0.79044000	0.06455600
O	5.52191300	1.86351600	0.16311900
O	-5.38405400	-1.86849900	0.19980100
C	-7.06843500	0.23106000	0.07962700
C	-7.66077200	1.61852100	-0.02920400
H	-7.32211300	-0.25893300	1.02204700
H	-7.38525100	-0.42372300	-0.73487800
H	-7.38267500	2.08741300	-0.97552200
H	-8.75051700	1.55783900	0.01585800
H	-7.31864800	2.25350600	0.79084800
C	7.08011400	-0.28254300	0.05068900
C	7.63522400	-1.69119300	-0.03185100
H	7.36854900	0.21764600	0.97999800
H	7.42657300	0.34340400	-0.77710200
H	7.32835100	-2.17147700	-0.96370800
H	8.72828400	-1.66887800	0.00486500
H	7.27196100	-2.29710900	0.80127300
O	5.64770300	-0.38907200	-0.00442200
O	-5.61786100	0.37290400	0.01418700

The geometric structure coordinates of T3* in under $E_x = +3 \times 10^{-3}$ a.u.

C	0.69424200	0.22050600	0.00017700
C	2.92154200	-0.67258900	-0.00032600
C	3.48824000	0.60853100	-0.00018600
C	2.64059300	1.72632000	0.00015600

C	1.22323200	1.58921400	0.00039000
C	-0.68101400	-0.11250800	0.00020700
C	-1.18046300	-1.49258200	0.00006700
C	-2.59351200	-1.65451900	0.00035800
C	-3.45750000	-0.55830600	0.00065000
C	-2.92961100	0.73193300	0.00066700
H	3.51773100	-1.57259700	-0.00053900
H	3.05635200	2.72498100	0.00031600
H	-2.99663400	-2.65888600	0.00029700
H	-3.54879000	1.61652300	0.00080700
O	-0.37661200	-2.47291300	-0.00026700
H	1.11398000	-1.75704700	-0.00028900
O	0.43864800	2.58144300	0.00079500
H	-1.16078900	1.85227100	0.00060400
N	1.59768800	-0.82396100	-0.00014000
N	-1.60027800	0.91209700	0.00043700
C	-4.93026400	-0.79661800	0.00089200
C	4.94855300	0.79044600	-0.00036000
O	5.51814500	1.86198300	-0.00019600
O	-5.42220400	-1.89862000	0.00083100
C	-7.07962500	0.22496800	0.00132200
C	-7.65437200	1.62405500	0.00091400
H	-7.37233900	-0.34709900	0.88434500
H	-7.37250600	-0.34767800	-0.88126100
H	-7.33703400	2.17518600	-0.88695300
H	-8.74558900	1.57343600	0.00100800
H	-7.33690600	2.17576900	0.88837000
C	7.05421500	-0.31055800	-0.00085000
C	7.59194200	-1.72814100	-0.00137400
H	7.37800800	0.25066900	0.88067000

H	7.37774100	0.25121900	-0.88211400
H	7.25071900	-2.26911400	-0.88690500
H	8.68567700	-1.71624100	-0.00160500
H	7.25109500	-2.26964700	0.88397600
O	5.61877300	-0.40162900	-0.00066300
O	-5.62637900	0.35309700	0.00114500

The geometric structure coordinates of TS* of N*-T1* path under $E_x = +3 \times 10^{-3}$ a.u.

C	0.70227317	0.25619175	-0.00459952
C	2.85212817	-0.69734325	0.01049348
C	3.46696417	0.57747775	-0.01296052
C	2.63646017	1.71703875	-0.03261252
C	1.24800617	1.56821775	-0.02864152
C	-0.72578683	-0.03719425	0.00131248
C	-1.19446983	-1.42097725	0.02532448
C	-2.57636883	-1.64837225	0.03030848
C	-3.45345183	-0.55712525	0.01222848
C	-2.91741283	0.73187975	-0.01048652
H	3.44458217	-1.60188325	0.02622648
H	3.07017817	2.70755875	-0.05069152
H	-2.95903583	-2.66076725	0.04779248
H	-3.56758683	1.59644075	-0.02511152
O	-0.32706583	-2.39495925	0.04122548
H	0.72150817	-1.86612025	0.03254148
O	0.47363817	2.65462575	-0.04739152
H	-0.47168183	2.34843075	-0.04086852
N	1.54336717	-0.83103525	0.01421548
N	-1.58528483	0.98028875	-0.01565652
C	-4.92060183	-0.82142525	0.01771448
C	4.91848717	0.74190375	-0.01709952

O	5.50864517	1.80906675	-0.03681352
O	-5.38789983	-1.93541425	0.03634848
C	-7.08965283	0.15499575	0.00331248
C	-7.69121983	1.54235675	-0.02109652
H	-7.37016283	-0.40724425	0.89653348
H	-7.37127683	-0.43881725	-0.86892952
H	-7.38466283	2.08392875	-0.91847452
H	-8.78121983	1.47029475	-0.01949152
H	-7.38413583	2.11539875	0.85633948
C	7.01071917	-0.38421425	0.00157948
C	7.53715117	-1.80639125	0.02881048
H	7.34337117	0.19109975	0.87121348
H	7.34217317	0.15684775	-0.89023852
H	7.18965117	-2.36171325	-0.84543952
H	8.63114717	-1.80516125	0.02795148
H	7.19099617	-2.32729025	0.92451848
O	5.57808417	-0.46283325	0.00406748
O	-5.63863483	0.31144675	-0.00037052

The geometric structure coordinates of TS* of T1*-T3* path under $E_x = +3 \times 10^{-3}$ a.u.

C	0.69943299	0.09531215	-0.00008819
C	2.93679299	-0.72902885	-0.00045819
C	3.45270599	0.57612615	-0.00047219
C	2.56350799	1.66688715	-0.00029019
C	1.16846799	1.45800215	-0.00009619
C	-0.70227201	-0.22068385	0.00010581
C	-1.22050801	-1.58565085	0.00013181
C	-2.63150801	-1.70737285	0.00032981
C	-3.45253701	-0.57001685	0.00048881
C	-2.87257601	0.69643115	0.00045281

H	3.56787499	-1.60448685	-0.00059519
H	2.94636599	2.67845815	-0.00030219
H	-3.07589001	-2.69426085	0.00035881
H	-3.46664601	1.59889915	0.00057081
O	-0.41421601	-2.57205885	-0.00001919
H	1.16452099	-1.86193485	-0.00024319
O	0.31271699	2.42948015	0.00007281
H	-0.78505801	1.85836115	0.00020181
N	1.62313299	-0.92247385	-0.00027219
N	-1.53011001	0.84563015	0.00026581
C	-4.93260101	-0.75810585	0.00069581
C	4.90300499	0.81892115	-0.00067619
O	5.42734599	1.91464715	-0.00069319
O	-5.46132301	-1.84372085	0.00074481
C	-7.04787901	0.32968315	0.00101481
C	-7.57844801	1.74624915	0.00111481
H	-7.35910301	-0.23310285	0.88372881
H	-7.35934501	-0.23306785	-0.88163719
H	-7.24336201	2.28732015	-0.88641219
H	-8.67074501	1.73030515	0.00126381
H	-7.24311901	2.28728515	0.88857081
C	7.05171999	-0.19512985	-0.00106619
C	7.64746399	-1.58930585	-0.00123419
H	7.35206799	0.37922415	0.88029281
H	7.35179099	0.37931715	-0.88245919
H	7.32895799	-2.14406785	-0.88672019
H	8.73974899	-1.53221485	-0.00140319
H	7.32923699	-2.14416285	0.88429181
O	5.62122899	-0.34520685	-0.00085019
O	-5.59213901	0.41251315	0.00081681

The geometric structure coordinates of TS* of N*-T2* path under $E_x = +3 \times 10^{-3}$ a.u.

C	0.71096544	0.08424195	0.00000989
C	2.89413444	-0.70956105	-0.00018411
C	3.45005744	0.59723695	0.00008689
C	2.57268044	1.69236695	0.00032989
C	1.18846044	1.46337695	0.00029789
C	-0.68283256	-0.20410705	-0.00003511
C	-1.22577556	-1.53626805	-0.00031011
C	-2.60954456	-1.69534305	-0.00032811
C	-3.44129056	-0.56803405	-0.00008011
C	-2.85349256	0.70963195	0.00018289
H	3.55219444	-1.56951305	-0.00037511
H	2.94893844	2.70643195	0.00054089
H	-3.04138356	-2.68771205	-0.00053311
H	-3.46516556	1.60193795	0.00037889
O	-0.43279656	-2.60231105	-0.00054411
H	0.51373344	-2.26805505	-0.00048511
O	0.32666944	2.44128495	0.00051589
H	-0.72453656	1.91704995	0.00041589
N	1.59473844	-0.95790305	-0.00022111
N	-1.53767856	0.87229295	0.00020189
C	-4.91289156	-0.76753805	-0.00010511
C	4.89630944	0.82800495	0.00011789
O	5.43239144	1.92124695	0.00034389
O	-5.43437456	-1.85883505	-0.00033011
C	-7.03636056	0.30506195	0.00014689
C	-7.57898056	1.71702895	0.00045089
H	-7.34330556	-0.26076105	0.88258889
H	-7.34332656	-0.26038905	-0.88252511

H	-7.24849356	2.26113995	-0.88695111
H	-8.67109556	1.69175895	0.00045889
H	-7.24847256	2.26076595	0.88807489
C	7.03968044	-0.19610205	-0.00012711
C	7.63106444	-1.59252905	-0.00043011
H	7.34396944	0.37704695	0.88103789
H	7.34394544	0.37741995	-0.88105911
H	7.30978644	-2.14599505	-0.88575711
H	8.72374244	-1.54002505	-0.00043311
H	7.30980944	-2.14637005	0.88467089
O	5.61084744	-0.34143705	-0.00013911
O	-5.58184056	0.39953795	0.00014989

The geometric structure coordinates of TS* of T2*-T3* path under $E_x = +3 \times 10^{-3}$ a.u.

C	0.69161643	0.27832009	0.00000927
C	2.86021743	-0.66145291	0.00110027
C	3.46905343	0.60596109	0.00046027
C	2.65155843	1.74944109	-0.00042773
C	1.23607343	1.63599509	-0.00067273
C	-0.69213157	-0.03939091	-0.00022973
C	-1.15625957	-1.41300291	0.00045127
C	-2.54794057	-1.63158091	0.00030827
C	-3.44381457	-0.55623491	-0.00051673
C	-2.95395357	0.74905109	-0.00119673
H	3.44611143	-1.56985591	0.00182727
H	3.09238443	2.73726109	-0.00088173
H	-2.92449157	-2.64606091	0.00079827
H	-3.60107257	1.61346709	-0.00188073
O	-0.29936457	-2.38204391	0.00115627
H	0.80990643	-1.79892591	0.00116227

O	0.45117743	2.63406909	-0.00146573
H	-1.21722057	1.91283409	-0.00148773
N	1.53592243	-0.80112791	0.00087627
N	-1.63362557	0.96624709	-0.00105573
C	-4.90804757	-0.83907491	-0.00069373
C	4.93079443	0.75057409	0.00074927
O	5.52886643	1.80827709	0.00022627
O	-5.36437857	-1.95672091	-0.00016873
C	-7.08794757	0.11614609	-0.00170973
C	-7.70475057	1.49708009	-0.00268473
H	-7.36291057	-0.46435691	0.88148727
H	-7.36251757	-0.46542991	-0.88432173
H	-7.40433257	2.05735509	-0.89068173
H	-8.79388857	1.41309609	-0.00286973
H	-7.40471957	2.05843409	0.88476227
C	7.01000343	-0.39919291	0.00203527
C	7.51582643	-1.82869891	0.00315327
H	7.34728243	0.15527709	0.88297227
H	7.34775843	0.15406709	-0.87948073
H	7.16236043	-2.36266791	-0.88183973
H	8.60963143	-1.84202391	0.00345127
H	7.16189343	-2.36144691	0.88869527
O	5.57412843	-0.45802391	0.00168927
O	-5.63866457	0.28820609	-0.00148973

The geometric structure coordinates of N under $E_Y = +3 \times 10^{-3}$ a.u.

C	0.72561200	0.16534300	0.00016500
C	2.88630500	-0.70407800	-0.00000400
C	3.45130000	0.57604600	0.00010100
C	2.60535000	1.67911700	0.00028000

C	1.22248000	1.49948400	0.00034500
C	-0.71365300	-0.13887200	0.00007400
C	-1.20853100	-1.47409100	-0.00007700
C	-2.59440200	-1.65540500	-0.00008100
C	-3.43824700	-0.55343000	0.00002000
C	-2.87506300	0.72827400	0.00010600
H	3.50857700	-1.58900000	-0.00012700
H	3.01493600	2.68116100	0.00040800
H	-3.00017700	-2.65924300	-0.00018900
H	-3.50172400	1.61023000	0.00016600
O	-0.42623100	-2.55130300	-0.00025900
H	0.51494300	-2.22724400	-0.00035600
O	0.42901000	2.57788700	0.00063000
H	-0.50853300	2.23259500	0.00082500
N	1.57193000	-0.88639900	0.00002500
N	-1.56151400	0.91462600	0.00012800
C	-4.91164200	-0.78771600	0.00000400
C	4.92568300	0.80328100	0.00005900
O	5.44240400	1.89737900	0.00017300
O	-5.42333600	-1.87917900	-0.00013600
C	-7.05400300	0.22557300	-0.00001300
C	-7.63935500	1.62220500	0.00057300
H	-7.34982900	-0.34832800	0.88131100
H	-7.34985600	-0.34758300	-0.88181800
H	-7.32003300	2.17491400	-0.88604100
H	-8.73093200	1.56711700	0.00053600
H	-7.32005600	2.17415300	0.88766900
C	7.05784800	-0.25162600	-0.00006500
C	7.60342000	-1.66361200	-0.00044300
H	7.36568700	0.31383000	0.88311100

H	7.36562700	0.31428900	-0.88296600
H	7.27044200	-2.20784000	-0.88635700
H	8.69599700	-1.64045700	-0.00047300
H	7.27050300	-2.20829500	0.88521500
O	5.61017400	-0.35173100	-0.00003600
O	-5.61127700	0.36752800	0.00001100

The geometric structure coordinates of N* under E_Y = +3×10⁻³ a.u.

C	0.70462700	0.16329900	-0.00005400
C	2.87797000	-0.69596300	-0.00021400
C	3.45875700	0.59709100	-0.00022400
C	2.60482800	1.70801600	-0.00011700
C	1.22457900	1.51411900	-0.00001800
C	-0.69290800	-0.12260000	-0.00001700
C	-1.21029700	-1.48331700	-0.00005600
C	-2.59120600	-1.68714400	0.00000100
C	-3.44739700	-0.57941700	0.00007300
C	-2.87347300	0.71151800	0.00007900
H	3.51295000	-1.57299000	-0.00028900
H	3.00936900	2.71126800	-0.00010100
H	-2.98722300	-2.69418500	-0.00002300
H	-3.51512600	1.58378900	0.00013300
O	-0.39537700	-2.52005700	-0.00017700
H	0.55924100	-2.15006900	-0.00028200
O	0.41262400	2.56548000	0.00013200
H	-0.53431000	2.19774000	0.00032100
N	1.57550400	-0.90033700	-0.00013800
N	-1.56659000	0.93139900	0.00003800
C	-4.90569200	-0.79873700	0.00013300
C	4.91615000	0.80819300	-0.00032800

O	5.44959900	1.90119800	-0.00015300
O	-5.43089600	-1.88930300	0.00016300
C	-7.04336300	0.23084900	0.00037700
C	-7.62646400	1.62900200	0.00055800
H	-7.34376100	-0.34188100	0.88145500
H	-7.34392700	-0.34172100	-0.88074900
H	-7.30580200	2.18092700	-0.88626800
H	-8.71829100	1.57718100	0.00065400
H	-7.30563900	2.18076500	0.88742600
C	7.04298700	-0.26220000	-0.00005700
C	7.58889400	-1.67474700	0.00004200
H	7.35557300	0.30302200	0.88234800
H	7.35574400	0.30296600	-0.88243600
H	7.25527800	-2.21925100	-0.88566700
H	8.68162700	-1.65338400	0.00015000
H	7.25510300	-2.21919500	0.88571900
O	5.59984100	-0.36033000	-0.00019500
O	-5.60367100	0.36860700	0.00025300

The geometric structure coordinates of T1* under $E_Y = +3 \times 10^{-3}$ a.u.

C	0.67081800	0.13660100	-0.09588400
C	2.92878800	-0.72936800	-0.11484100
C	3.45756500	0.53540200	0.01801800
C	2.57652000	1.64616700	0.07167700
C	1.20507600	1.45834100	0.00678200
C	-0.74203200	-0.15052500	-0.01643900
C	-1.25955500	-1.51811500	0.11930800
C	-2.64095100	-1.67584200	0.10404600
C	-3.48984600	-0.55426700	0.03247800
C	-2.92694000	0.71034000	-0.05438300

H	3.53733400	-1.61824100	-0.18315500
H	2.97656000	2.64690200	0.15139600
H	-3.05883500	-2.66682300	0.21398600
H	-3.53702700	1.60301300	-0.07025100
O	-0.41219000	-2.48536100	0.20836600
H	1.21300500	-1.83643100	-0.25394300
O	0.40028200	2.52608000	0.04718600
H	-0.53416300	2.19042800	-0.03862900
N	1.59582800	-0.89325400	-0.19991700
N	-1.60458000	0.87216100	-0.11113900
C	-4.95370700	-0.77529900	0.07383600
C	4.91796500	0.76492200	0.07397600
O	5.42647200	1.85952400	0.18350100
O	-5.47638100	-1.85992700	0.17461000
C	-7.09332300	0.24310700	0.01718400
C	-7.67918500	1.63696500	-0.07556400
H	-7.37974300	-0.26446200	0.94157200
H	-7.40483700	-0.39153200	-0.81614300
H	-7.37067900	2.12410700	-1.00357500
H	-8.77084200	1.58399600	-0.05780200
H	-7.34795000	2.25117200	0.76522700
C	7.06268100	-0.26771600	0.05269000
C	7.63147100	-1.66522800	-0.07231300
H	7.33488000	0.20775500	0.99857200
H	7.39216700	0.38868000	-0.75684700
H	7.33789600	-2.12018600	-1.02053400
H	8.72291800	-1.62858600	-0.03145700
H	7.27845600	-2.30225100	0.74111300
O	5.61942200	-0.38526200	-0.00610900
O	-5.65368000	0.38316500	-0.01410400

The geometric structure coordinates of T2* under $E_Y = +3 \times 10^{-3}$ a.u.

C	0.75076800	0.14973800	0.00046500
C	2.93268400	-0.68384500	0.02979000
C	3.49233700	0.58991600	-0.02724700
C	2.63247700	1.69881800	-0.09821600
C	1.23470600	1.53240100	-0.13504800
C	-0.67126500	-0.16133800	0.08802100
C	-1.19905000	-1.47356600	-0.03649800
C	-2.58374800	-1.65616900	-0.10210700
C	-3.44495400	-0.54188900	-0.03205900
C	-2.90446700	0.72627800	0.10828500
H	3.54936300	-1.57202800	0.01389800
H	3.04052000	2.69449700	-0.21124000
H	-2.98931100	-2.65532300	-0.18030100
H	-3.51342900	1.61453000	0.18240800
O	-0.41101500	-2.54238200	-0.08649600
H	0.52789700	-2.22899500	0.01470100
O	0.40879600	2.50548400	-0.23936700
H	-1.12772800	1.81430400	0.15340000
N	1.60177700	-0.87229300	0.09140800
N	-1.57756600	0.88179300	0.19936700
C	-4.91018600	-0.76026000	-0.07534700
C	4.95793000	0.80833600	-0.05861800
O	5.48171300	1.89839400	-0.14574600
O	-5.42798400	-1.84453400	-0.19298400
C	-7.04926900	0.26487800	-0.01921600
C	-7.63112000	1.65873700	0.09297400
H	-7.36659900	-0.38291500	0.80151800
H	-7.32968000	-0.22632000	-0.95409100

H	-7.29262900	2.28625200	-0.73501500
H	-8.72262100	1.60905800	0.06622000
H	-7.32915900	2.12909000	1.03176200
C	7.09009200	-0.24758500	-0.00327700
C	7.63955300	-1.65402400	0.10985000
H	7.41036100	0.39094800	0.82424600
H	7.38853200	0.24090400	-0.93468600
H	7.29726000	-2.27230700	-0.72240800
H	8.73210600	-1.63053800	0.09484800
H	7.31764400	-2.12177800	1.04246000
O	5.64560400	-0.34921900	0.02331900
O	-5.60778200	0.39914600	0.02351000

The geometric structure coordinates of T3* in under $E_Y = +3 \times 10^{-3}$ a.u.

C	0.69230800	0.17649900	-0.00019700
C	2.92779000	-0.69564600	-0.00007300
C	3.47387400	0.59165400	-0.00001300
C	2.61745800	1.69898000	-0.00005300
C	1.20306900	1.55094500	-0.00022200
C	-0.68150000	-0.15511100	-0.00005100
C	-1.19522500	-1.53013400	0.00000000
C	-2.60949800	-1.68313100	0.00014500
C	-3.46320800	-0.57288500	0.00019200
C	-2.91938600	0.71143500	0.00014600
H	3.53562200	-1.58808000	-0.00008900
H	3.02894800	2.69953600	-0.00003100
H	-3.01852500	-2.68490100	0.00022800
H	-3.52928900	1.60214300	0.00015400
O	-0.39559300	-2.51022400	-0.00007000
H	1.13655900	-1.79705600	-0.00015800

O	0.40634100	2.53898100	-0.00030100
H	-1.12091100	1.81543300	-0.00002400
N	1.60319700	-0.86047100	-0.00018000
N	-1.59000200	0.88110200	0.00001700
C	-4.93052100	-0.78532500	0.00028300
C	4.94086200	0.79954900	0.00007100
O	5.47333200	1.88826400	0.00014600
O	-5.45908200	-1.87031300	0.00022800
C	-7.06232600	0.25738000	0.00046700
C	-7.63514800	1.65955300	0.00037800
H	-7.36546700	-0.31292900	0.88187700
H	-7.36548600	-0.31302400	-0.88086800
H	-7.31078900	2.20922400	-0.88649600
H	-8.72724200	1.61501500	-0.00010100
H	-7.31153800	2.20908900	0.88760100
C	7.06411600	-0.27987000	0.00011000
C	7.60128400	-1.69541900	-0.00033500
H	7.37780100	0.28310900	0.88311600
H	7.37789900	0.28373100	-0.88246000
H	7.26496000	-2.23787300	-0.88625000
H	8.69402600	-1.67964500	-0.00090700
H	7.26588100	-2.23820700	0.88572400
O	5.61784500	-0.36962300	0.00005500
O	-5.62005100	0.38499300	0.00042900

The geometric structure coordinates of N under $E_Z = +3 \times 10^{-3}$ a.u.

C	0.72021500	0.14973900	0.21426300
C	2.87786400	-0.72416300	0.15246300
C	3.44589900	0.55463000	0.17707600
C	2.60497400	1.65888200	0.22956500

C	1.22019000	1.48243000	0.23873300
C	-0.72021500	-0.14975800	0.21423700
C	-1.22016500	-1.48246400	0.23831900
C	-2.60494600	-1.65894000	0.22915200
C	-3.44589300	-0.55468700	0.17702500
C	-2.87788100	0.72412300	0.15277200
H	3.49934500	-1.60865900	0.10875000
H	3.01572400	2.66035700	0.24720200
H	-3.01567600	-2.66042800	0.24649900
H	-3.49938100	1.60862100	0.10934300
O	-0.43506900	-2.56203400	0.27306300
H	0.50449200	-2.23120000	0.22669700
O	0.43512000	2.56200800	0.27384600
H	-0.50445100	2.23120600	0.22743900
N	1.56366400	-0.90512800	0.18064200
N	-1.56368300	0.90510400	0.18095800
C	-4.92037500	-0.78101400	0.14612500
C	4.92038500	0.78093900	0.14619000
O	5.44200400	1.86142800	0.28629100
O	-5.44197000	-1.86155100	0.28593200
C	-7.04315200	0.23808300	-0.16449900
C	-7.58914900	1.61867000	-0.46049200
H	-7.42598100	-0.17007000	0.77463200
H	-7.27458900	-0.47739200	-0.95672000
H	-7.17934100	2.00282200	-1.39652500
H	-8.67716900	1.57584400	-0.55367600
H	-7.33643300	2.31674800	0.34095500
C	7.04313000	-0.23810300	-0.16483000
C	7.58908800	-1.61861000	-0.46126900
H	7.42600800	0.16975400	0.77441000

H	7.27454700	0.47761100	-0.95684200
H	7.17923200	-2.00246800	-1.39740300
H	8.67710500	-1.57577700	-0.55448700
H	7.33639200	-2.31692900	0.33997300
O	5.60094400	-0.36109100	-0.06181000
O	-5.60096300	0.36106900	-0.06150400

The geometric structure coordinates of N* under E_Z = +3×10⁻³ a.u.

C	0.69856800	0.14141400	0.11994000
C	2.87408600	-0.70834800	0.08732700
C	3.45356000	0.58266100	0.11567000
C	2.60049400	1.69287300	0.14732900
C	1.21967200	1.49635700	0.14017100
C	-0.69856900	-0.14154500	0.11990800
C	-1.21970100	-1.49649000	0.13968600
C	-2.60052800	-1.69297800	0.14682600
C	-3.45357100	-0.58273700	0.11557500
C	-2.87407100	0.70826800	0.08765100
H	3.51120600	-1.58326800	0.05372000
H	3.00228400	2.69723500	0.16152800
H	-3.00233800	-2.69733700	0.16069200
H	-3.51117400	1.58321200	0.05436500
O	-0.40800000	-2.54153100	0.16010500
H	0.54290200	-2.17513800	0.12514800
O	0.40794300	2.54137300	0.16099400
H	-0.54294900	2.17497400	0.12598300
N	1.56951700	-0.91896200	0.10010600
N	-1.56949600	0.91885300	0.10046200
C	-4.91182100	-0.79555100	0.11028300
C	4.91180500	0.79550600	0.11040100

O	5.44336500	1.88229500	0.20496800
O	-5.44340000	-1.88235900	0.20450300
C	-7.03880600	0.24643700	-0.09198100
C	-7.59544500	1.64055200	-0.29255100
H	-7.40285500	-0.21776000	0.82903100
H	-7.29142500	-0.42125700	-0.91934600
H	-7.20942700	2.08082400	-1.21406700
H	-8.68552400	1.60076200	-0.36121200
H	-7.32359200	2.29102600	0.54227300
C	7.03880400	-0.24637200	-0.09229700
C	7.59546000	-1.64040900	-0.29336400
H	7.40287900	0.21751700	0.82886000
H	7.29138100	0.42160900	-0.91944300
H	7.20941700	-2.08037300	-1.21501500
H	8.68553600	-1.60057600	-0.36205100
H	7.32365000	-2.29117200	0.54124800
O	5.59903000	-0.36701800	-0.01561600
O	-5.59902700	0.36703200	-0.01531200

The geometric structure coordinates of T1* under $E_Z = +3 \times 10^{-3}$ a.u.

C	0.67535600	0.20050000	0.09618700
C	2.89544700	-0.71556500	-0.05209900
C	3.45206400	0.52664900	0.18232400
C	2.61088000	1.64735900	0.36004000
C	1.22426300	1.48626000	0.29754600
C	-0.75233700	-0.08632500	0.19997300
C	-1.23154400	-1.45281000	0.43630400
C	-2.62271600	-1.62984700	0.39064000
C	-3.48292500	-0.53148100	0.22010000
C	-2.93295200	0.73585000	0.07876000

H	3.48929100	-1.60074500	-0.22123200
H	3.03518400	2.63173600	0.49529900
H	-3.03100500	-2.61464700	0.57417700
H	-3.55430100	1.61818800	0.01176800
O	-0.39011100	-2.40055700	0.63364800
H	1.12928300	-1.78027300	-0.12975700
O	0.44412800	2.56324800	0.43058000
H	-0.48597100	2.28059300	0.24028500
N	1.55842300	-0.84870000	-0.12340400
N	-1.60248000	0.92225900	0.02842100
C	-4.94905200	-0.76350300	0.23453400
C	4.92358400	0.71916600	0.21188400
O	5.45961500	1.76867600	0.48354200
O	-5.46601700	-1.82675800	0.49289500
C	-7.08389100	0.20791900	-0.14558000
C	-7.64534300	1.54262400	-0.58850300
H	-7.45193800	-0.09248800	0.83938000
H	-7.32355000	-0.59413300	-0.84754000
H	-7.25164900	1.81998000	-1.56821800
H	-8.73435100	1.48372300	-0.65976500
H	-7.38619400	2.32929500	0.12394200
C	7.04079500	-0.30739200	-0.12658500
C	7.57828100	-1.66274000	-0.53456700
H	7.39204000	-0.00052300	0.86225500
H	7.31656000	0.47705600	-0.83512200
H	7.20340900	-1.94622200	-1.51993500
H	8.66980200	-1.63217500	-0.57871100
H	7.28186100	-2.43076100	0.18370700
O	5.59520700	-0.41213000	-0.09308400
O	-5.64360600	0.35045600	-0.07988800

The geometric structure coordinates of T2* under $E_Z = +3 \times 10^{-3}$ a.u.

C	0.75265400	0.09325400	0.18976500
C	2.93325000	-0.73476900	0.07135000
C	3.48520900	0.53025700	0.22179600
C	2.62666700	1.63007300	0.39412100
C	1.23645000	1.45702900	0.43288800
C	-0.67332400	-0.19181500	0.08163200
C	-1.22188400	-1.47869400	0.28878200
C	-2.60671200	-1.64135500	0.35674000
C	-3.45182800	-0.52305700	0.17654600
C	-2.89879900	0.71735500	-0.06885100
H	3.55225000	-1.61852400	0.00130700
H	3.03708100	2.61272400	0.58372500
H	-3.02859000	-2.62565400	0.49992800
H	-3.49416400	1.60023800	-0.24410000
O	-0.43985700	-2.55386100	0.42525800
H	0.48950900	-2.27088700	0.23187400
O	0.39513100	2.40622200	0.62870700
H	-1.14466500	1.78459400	-0.18683400
N	1.60392800	-0.91528000	0.01614400
N	-1.56122200	0.85256900	-0.14310700
C	-4.92255400	-0.71818900	0.21470300
C	4.95134800	0.75953900	0.24322500
O	5.46959500	1.82035600	0.50944300
O	-5.45524500	-1.76779300	0.49240600
C	-7.04355500	0.30309100	-0.11584500
C	-7.58611600	1.65735200	-0.52075400
H	-7.38882700	-0.00456600	0.87483400
H	-7.32159800	-0.48185200	-0.82296100

H	-7.21729400	1.94176500	-1.50814000
H	-8.67780000	1.62454400	-0.55887700
H	-7.28731700	2.42587400	0.19599900
C	7.08585900	-0.21379100	-0.13370200
C	7.64635300	-1.54604600	-0.58518900
H	7.45083400	0.07793300	0.85502600
H	7.32986400	0.59336300	-0.82827600
H	7.25591300	-1.81462800	-1.56864400
H	8.73576000	-1.48887600	-0.65171300
H	7.38275100	-2.33793000	0.11979900
O	5.64517300	-0.35401100	-0.07458800
O	-5.59809400	0.41088200	-0.09021600

The geometric structure coordinates of T3* in under $E_Z = +3 \times 10^{-3}$ a.u.

C	0.68786800	0.16468200	0.18998500
C	2.92682100	-0.70735100	0.11364100
C	3.47610800	0.57494400	0.15598000
C	2.62404100	1.68280800	0.22354000
C	1.20834400	1.53757800	0.23554000
C	-0.68782900	-0.16467300	0.18994800
C	-1.20829400	-1.53759900	0.23505800
C	-2.62398900	-1.68283700	0.22306500
C	-3.47607200	-0.57495700	0.15595400
C	-2.92679800	0.70735900	0.11411300
H	3.53132100	-1.59987800	0.05392200
H	3.03573100	2.68284200	0.25453000
H	-3.03566800	-2.68288700	0.25366500
H	-3.53131200	1.59990600	0.05484100
O	-0.42047500	-2.52647400	0.29237000
H	1.14631300	-1.80743200	0.14729700

O	0.42053000	2.52644300	0.29319600
H	-1.14624600	1.80744900	0.14800600
N	1.59913200	-0.87118200	0.14129700
N	-1.59910300	0.87120700	0.14177100
C	-4.94389900	-0.78152300	0.12820700
C	4.94392500	0.78149300	0.12823900
O	5.47980000	1.85944500	0.24535600
O	-5.47975500	-1.85951600	0.24499700
C	-7.05994400	0.26846500	-0.14580500
C	-7.59934600	1.65960800	-0.40367300
H	-7.44272200	-0.16067100	0.78420200
H	-7.30203200	-0.42477700	-0.95469000
H	-7.19336900	2.06486800	-1.33261700
H	-8.68822100	1.62638100	-0.49105300
H	-7.33766600	2.33593100	0.41363000
C	7.05990400	-0.26851000	-0.14620500
C	7.59922500	-1.65962900	-0.40436600
H	7.44274700	0.16043800	0.78386000
H	7.30197000	0.42487400	-0.95497600
H	7.19314400	-2.06471300	-1.33334200
H	8.68809100	-1.62642300	-0.49184800
H	7.33760100	-2.33608600	0.41284300
O	5.61832600	-0.37897000	-0.04745900
O	-5.61836500	0.37896100	-0.04711700