Supplementary Material (ESI) for New Journal of Chemistry

Syntheses and NLO Properties of 1D Heterothiometallic Anionic W/S/Ag Clusters Possessing Solvento-Ytterbium Cation-Directed Isomeric Skeletons

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Supporting Information

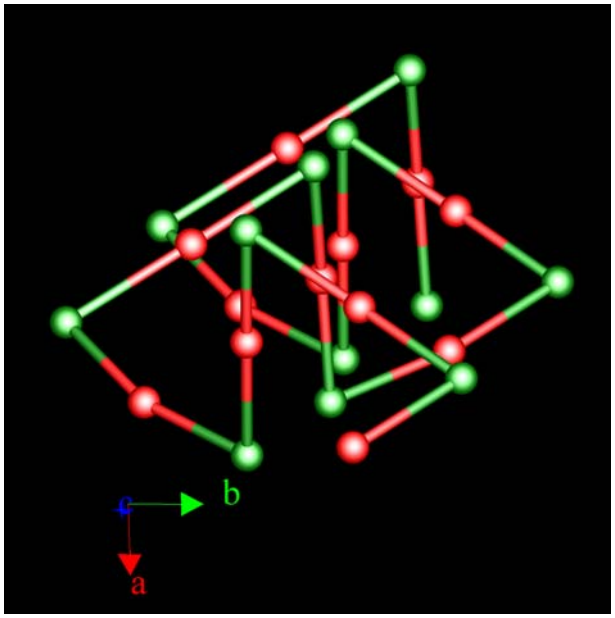

Figure S1. Ball and stick diagram of the anionic skeleton of cluster **1** viewed along the *c*-axis, only showing interactions between metallic atoms. (Ag red, W green)

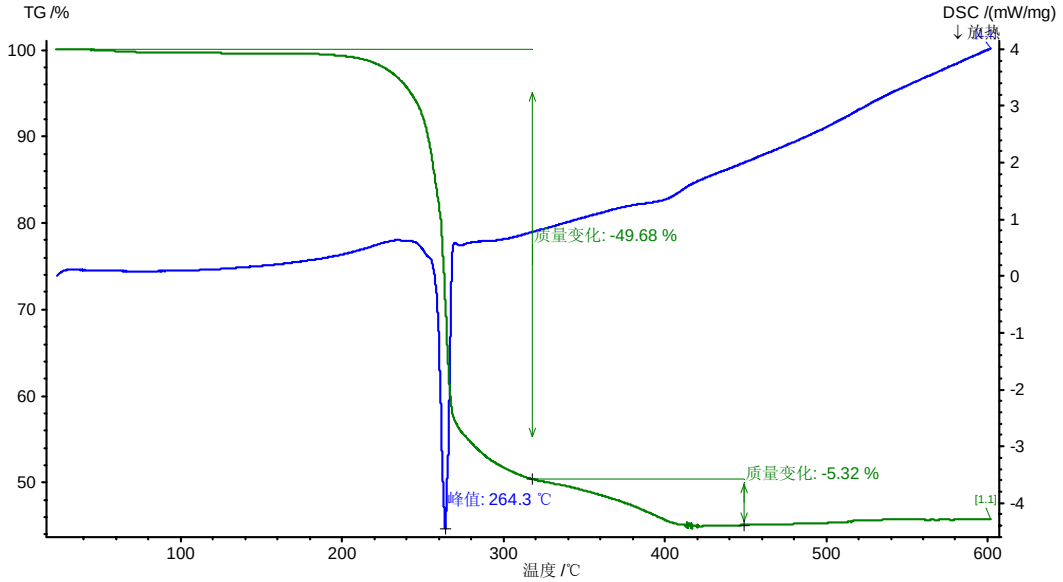

Figure S2. Thermogravimetric analysis for $\{[Yb(HMP)_4(NO_3)_2][WS_4Ag]\}_n$ (Calcd: 49.99% for HMP; 8.65% for NO_3^-; 41.36% for YbAgWS).

Cartesian coordinates, the relevant TD-DFT/PCM data (including the electronic excitation energies, oscillator strengths, and transition components), and the corresponding atomic orbital coefficients of the absorption spectra of clusters **1**, **2**, and **3** in solution are as follows:

Cartesian coordinates of cluster 1:

W	25.59263850	37.48418200	-13.06235160
W	21.09561660	44.09031800	-3.67213720
W	20.54794470	40.23464100	-8.08103070
W	25.04496670	41.33985900	-17.47124510
W	25.78853750	42.50544200	-9.99325390
W	30.28555940	39.06905800	-19.38346830
Ag	24.87945140	39.29397050	-15.32727130
Ag	20.38242950	42.28052950	-5.93705690
Ag	23.13937610	41.42586180	-9.04540570
Ag	27.63639800	40.14887130	-18.43562010
Ag	25.93731130	40.11274540	-11.76349710
S	27.55147180	38.29992700	-12.46813880
S	23.05444990	43.27457300	-3.07792450
S	25.10477530	35.85828560	-11.75204110
S	20.60775340	45.71621440	-2.36182670
S	19.43965950	42.58655040	-3.53691810
S	23.93668140	38.98794960	-12.92713250
S	21.25018810	44.82495470	-5.72446250
S	25.74721010	36.74954530	-15.11467690
S	24.59125450	43.42793310	-17.28400420
S	20.09423250	38.14656690	-7.89378980
S	21.00576800	40.62619860	-10.20603620
S	25.50278990	40.94830140	-19.59625060
S	18.71811100	41.34964790	-7.55668110
S	23.21513300	40.22485210	-16.94689550
S	22.26538230	40.72828330	-6.71513010
S	26.76240430	40.84621670	-16.10534450
S	28.44894410	37.85662780	-19.23115900
S	23.95192220	43.71787220	-9.84094470
S	30.97052840	39.05390840	-21.48556170
S	26.47350640	42.52059160	-12.09534730
S	25.49698610	40.43531430	-9.20804420
S	29.99400810	41.13918570	-18.59825860
S	31.81578110	38.10577960	-18.21532560
S	27.31875920	43.46872030	-8.82511130

Cluster 1 B3LYP/LanL2DZf+6-31Gd TD-PCM (300 states) in DMSO (dielectric constant= 48.9)

Excitation energies and oscillator strengths:

Excited State	1:	Singlet-A	2.5292 eV	490.21 nm	f=0.0022
285 ->286		0.20280			
285 ->287		0.24555			
285 ->288		-0.22883			
285 ->289		-0.21181			
285 ->290		0.42586			
285 ->291		0.16030			
285 ->292		-0.10294			

This state for optimization and/or second-order correction.
Total Energy, E(RPA) = -10694.8130763
Copying the excited state density for this state as the 1-particle RhoCI density.

Excited State	2:	Singlet-A	2.5520 eV	485.84 nm	f=0.0003
273 ->286		-0.10213			
284 ->286		0.39481			
284 ->287		-0.32204			
284 ->288		0.27571			
284 ->290		0.19515			
284 ->291		-0.13514			

Excited State	3:	Singlet-A	2.5611 eV	484.10 nm	f=0.0031
274 ->287		0.13546			
285 ->286		0.31857			
285 ->287		0.44554			
285 ->288		0.13489			
285 ->290		-0.20758			
285 ->291		-0.17561			
285 ->292		0.16013			

Excited State	4:	Singlet-A	2.5837 eV	479.87 nm	f=0.0001
280 ->286		-0.11207			
280 ->289		-0.10299			
283 ->286		0.30337			
283 ->287		-0.23523			
283 ->289		0.36231			
283 ->290		0.20475			
283 ->292		0.16774			

Excited State	5:	Singlet-A	2.6137 eV	474.37 nm	f=0.0002
276 ->287		-0.12819			
277 ->287		-0.14453			
280 ->286		0.22853			
280 ->287		0.24340			
281 ->286		-0.20873			
281 ->287		-0.22330			
282 ->286		0.18232			
282 ->287		0.17902			
283 ->286		0.16512			
283 ->287		0.13996			
Excited State	6:	Singlet-A	2.6257 eV	472.20 nm	f=0.0014
283 ->286		-0.29050			
283 ->287		0.20178			
283 ->289		0.17888			
283 ->291		0.30250			
283 ->292		0.32461			
Excited State	7:	Singlet-A	2.6391 eV	469.80 nm	f=0.0010
280 ->286		-0.11047			
283 ->286		0.26393			
283 ->287		-0.11582			
283 ->289		-0.26777			
283 ->290		-0.24028			
283 ->291		0.27835			
283 ->292		0.13490			
Excited State	8:	Singlet-A	2.6532 eV	467.30 nm	f=0.0006
276 ->286		-0.13146			
276 ->288		0.10118			
277 ->286		-0.17857			
277 ->288		0.14138			
280 ->286		-0.11605			
280 ->287		0.13042			
280 ->288		0.21538			
280 ->289		-0.10360			
281 ->287		-0.12062			
281 ->288		-0.18586			
282 ->287		0.11049			
282 ->288		0.16230			
283 ->287		0.10345			
283 ->288		0.10834			
283 ->291		-0.12616			

283 ->292 -0.16218

Excited State 9: Singlet-A 2.6820 eV 462.29 nm f=0.0001
277 ->288 -0.12534
277 ->289 -0.12920
280 ->288 0.13204
280 ->289 0.19560
281 ->288 -0.10302
281 ->289 -0.15231
282 ->288 0.12965
282 ->289 0.14539
283 ->288 0.19814
283 ->289 0.12489
283 ->291 0.12920
283 ->292 -0.11635
283 ->293 0.14476

Excited State 10: Singlet-A 2.7080 eV 457.84 nm f=0.0031
269 ->293 0.11076
280 ->288 -0.11328
280 ->291 -0.13675
280 ->293 0.29986
281 ->288 0.11542
281 ->291 0.10762
281 ->293 -0.26117
282 ->288 -0.10851
282 ->293 0.20878
283 ->288 -0.15685
283 ->293 0.12714

Excited State 11: Singlet-A 2.7162 eV 456.46 nm f=0.0005
274 ->286 -0.13257
274 ->287 -0.18090
280 ->286 0.11180
280 ->287 0.14667
281 ->286 0.11416
281 ->287 0.16662
281 ->296 -0.13575
285 ->294 0.38723
285 ->296 0.30525

Excited State 12: Singlet-A 2.7197 eV 455.87 nm f=0.0019
270 ->288 0.10381
272 ->288 -0.13934

275 ->286	-0.13510
275 ->287	0.11527
275 ->289	0.12022
276 ->286	0.23727
276 ->287	-0.10943
277 ->286	-0.23801
277 ->287	0.12319
277 ->288	0.11084
277 ->290	0.12332
277 ->292	0.10057
280 ->288	-0.12700
283 ->288	0.24093
283 ->290	0.11583
283 ->292	0.10285

Excited State 13: Singlet-A 2.7329 eV 453.67 nm f=0.0006

274 ->286	0.15739
274 ->287	0.21314
276 ->288	0.16807
280 ->286	-0.12776
280 ->287	-0.16522
281 ->286	-0.13690
281 ->287	-0.18627
283 ->288	0.12254
285 ->294	0.21609
285 ->296	0.25010

Excited State 14: Singlet-A 2.7345 eV 453.41 nm f=0.0067

274 ->287	-0.10807
275 ->288	0.13257
275 ->291	0.10669
276 ->288	0.24611
276 ->291	0.13211
277 ->286	0.11298
281 ->287	0.14473
283 ->288	0.22302
285 ->294	-0.16232
285 ->296	-0.18048

Excited State 15: Singlet-A 2.7497 eV 450.90 nm f=0.0088

282 ->295	-0.10143
282 ->297	-0.12982
284 ->289	0.37335
284 ->290	0.21546

284 ->291	-0.29699			
284 ->292	-0.17359			
284 ->293	-0.13461			
284 ->295	-0.25976			
Excited State 16:	Singlet-A	2.7613 eV	449.01 nm	f=0.0063
272 ->286	-0.12134			
275 ->286	-0.10937			
275 ->288	-0.17934			
276 ->289	-0.10467			
276 ->292	0.17007			
276 ->293	0.14352			
277 ->286	0.10416			
277 ->288	-0.13487			
277 ->292	-0.12674			
283 ->286	-0.12510			
283 ->288	0.19438			
283 ->289	-0.16169			
283 ->290	0.15516			
283 ->292	0.14384			
Excited State 17:	Singlet-A	2.7816 eV	445.73 nm	f=0.0004
279 ->295	-0.21905			
280 ->295	-0.11248			
281 ->295	0.13106			
282 ->295	0.42907			
282 ->297	0.32351			
283 ->295	-0.14591			
283 ->297	-0.12593			
284 ->289	0.10221			
Excited State 18:	Singlet-A	2.7838 eV	445.38 nm	f=0.0003
278 ->287	0.13437			
278 ->294	0.58358			
280 ->294	0.17252			
281 ->294	0.19728			
281 ->296	-0.11246			
Excited State 19:	Singlet-A	2.7941 eV	443.74 nm	f=0.0074
270 ->286	-0.11790			
272 ->286	0.12349			
275 ->286	0.14280			
275 ->287	-0.12864			
275 ->288	0.10208			

275 ->289	-0.10875
276 ->286	-0.13495
276 ->287	0.11623
276 ->288	-0.18195
277 ->288	0.15789
277 ->292	0.10880
283 ->287	-0.11434
283 ->288	0.25139
283 ->289	-0.12925
283 ->290	0.11988
283 ->292	0.10789

Excited State 20: Singlet-A 2.8163 eV 440.24 nm f=0.0046

279 ->295	0.29744
282 ->297	0.21134
283 ->297	-0.11057
284 ->286	-0.10563
284 ->289	0.15137
284 ->290	0.13937
284 ->291	-0.12948
284 ->295	0.35096
284 ->297	-0.27938

Excited State 21: Singlet-A 2.8235 eV 439.11 nm f=0.0022

278 ->294	0.19787
280 ->289	-0.10321
280 ->294	-0.14064
280 ->296	0.17735
281 ->289	0.15159
281 ->293	0.11694
281 ->294	-0.17439
281 ->296	0.21853
285 ->289	0.10209
285 ->296	0.11910

Excited State 22: Singlet-A 2.8316 eV 437.86 nm f=0.0001

274 ->287	-0.11790
278 ->294	0.21003
280 ->289	0.12756
280 ->294	-0.14906
280 ->296	0.21406
281 ->289	-0.10389
281 ->294	-0.20609
281 ->296	0.25954

Excited State 23:	Singlet-A	2.8644 eV	432.85 nm	f=0.0038
279 ->295	0.29827			
279 ->297	-0.31391			
282 ->295	0.14386			
283 ->297	0.10101			
284 ->295	0.18974			
284 ->297	0.41703			
Excited State 24:	Singlet-A	2.8714 eV	431.79 nm	f=0.0040
280 ->290	-0.22470			
280 ->291	-0.18917			
281 ->290	0.24000			
281 ->291	0.18927			
282 ->290	-0.17677			
282 ->291	-0.14053			
283 ->290	-0.10998			
285 ->288	0.14691			
285 ->289	0.16593			
285 ->291	0.15952			
Excited State 25:	Singlet-A	2.9019 eV	427.25 nm	f=0.0007
276 ->288	-0.10816			
276 ->291	-0.10668			
280 ->289	-0.14885			
281 ->289	0.10645			
281 ->292	0.10210			
285 ->286	-0.13600			
285 ->288	-0.24810			
285 ->289	-0.16913			
285 ->291	-0.23876			
285 ->292	0.28119			
285 ->296	-0.14296			
Excited State 26:	Singlet-A	2.9219 eV	424.32 nm	f=0.0082
285 ->286	-0.27415			
285 ->287	0.17104			
285 ->288	0.37600			
285 ->289	-0.12929			
285 ->293	-0.21735			
285 ->294	0.18352			
285 ->296	-0.18582			
Excited State 27:	Singlet-A	2.9352 eV	422.40 nm	f=0.0057

274 ->290	-0.15269
280 ->288	-0.11168
280 ->290	0.21520
281 ->286	0.12288
281 ->287	0.14903
281 ->288	-0.15954
281 ->289	-0.12847
281 ->290	0.22583
281 ->291	0.10723
281 ->292	-0.15421
282 ->286	-0.17764
282 ->287	0.10198
285 ->286	-0.10023

Excited State 28: Singlet-A 2.9354 eV 422.37 nm f=0.0026

281 ->286	0.13901
282 ->286	0.21862
282 ->287	-0.16890
282 ->288	0.12978
284 ->286	-0.30236
284 ->287	0.11169
284 ->288	0.30596
284 ->289	-0.12460
284 ->290	0.14426

Excited State 29: Singlet-A 2.9400 eV 421.72 nm f=0.0265

280 ->292	-0.20051
281 ->292	0.14107
282 ->286	0.21624
282 ->287	-0.18023
282 ->292	-0.10729
285 ->294	-0.20051
285 ->296	0.23126

Excited State 30: Singlet-A 2.9466 eV 420.78 nm f=0.0147

280 ->286	-0.13084
280 ->292	0.11811
281 ->286	0.11636
282 ->286	0.28180
282 ->287	-0.18430
282 ->288	0.10932
282 ->292	0.11228
283 ->287	0.11288
284 ->286	0.22334

284 ->288 -0.27929
284 ->289 0.14586

Excited State 31: Singlet-A 2.9567 eV 419.34 nm f=0.0192
277 ->293 -0.10268
280 ->292 -0.15434
281 ->290 0.10404
283 ->288 -0.12468
283 ->293 0.10622
285 ->286 0.26551
285 ->287 -0.21380
285 ->289 0.14360
285 ->294 0.25822
285 ->296 -0.20131

Excited State 32: Singlet-A 2.9603 eV 418.82 nm f=0.0151
276 ->293 -0.11361
277 ->289 -0.10645
277 ->293 -0.19685
283 ->288 -0.16394
283 ->290 0.12256
283 ->291 -0.16419
283 ->292 0.14303
283 ->293 0.28661
285 ->286 -0.25156
285 ->287 0.18789

Excited State 33: Singlet-A 2.9799 eV 416.06 nm f=0.0141
285 ->286 -0.20028
285 ->287 0.16101
285 ->288 -0.15811
285 ->289 0.33256
285 ->293 0.36600
285 ->294 0.20058
285 ->296 -0.18039

Excited State 34: Singlet-A 2.9986 eV 413.47 nm f=0.0011
276 ->287 0.10461
276 ->289 -0.12253
277 ->289 0.19537
279 ->286 -0.12995
279 ->287 0.15050
280 ->287 -0.15992
283 ->286 0.24830

283 ->287 0.37015

Excited State 35: Singlet-A 3.0043 eV 412.69 nm f=0.0060
275 ->289 -0.11756
276 ->289 0.16549
277 ->289 -0.14334
277 ->292 -0.11452
279 ->286 0.24568
279 ->287 -0.15191
279 ->290 0.10489
280 ->287 -0.12889
282 ->286 0.10018
283 ->286 0.17641
283 ->287 0.27989
283 ->290 0.11135

Excited State 36: Singlet-A 3.0175 eV 410.88 nm f=0.0009
276 ->286 -0.12880
276 ->289 -0.11441
277 ->286 0.11588
277 ->287 -0.11243
277 ->289 0.12916
277 ->292 0.13509
279 ->286 0.32810
279 ->287 -0.23913
279 ->288 0.20264
279 ->289 -0.16607
284 ->292 0.11657
284 ->295 -0.13009

Excited State 37: Singlet-A 3.0251 eV 409.84 nm f=0.0022
284 ->289 0.32601
284 ->290 0.18770
284 ->291 0.27656
284 ->292 0.41180
285 ->292 -0.10960

Excited State 38: Singlet-A 3.0341 eV 408.64 nm f=0.0036
280 ->286 0.15462
280 ->287 -0.16307
281 ->286 -0.19126
282 ->288 0.12738
282 ->289 0.17860
282 ->290 0.24033

282 ->291	-0.22225			
285 ->290	-0.14379			
285 ->292	-0.16489			

Excited State 39:	Singlet-A	3.0360 eV	408.38 nm	f=0.0005
274 ->287	0.10702			
278 ->286	0.33647			
278 ->287	0.42177			
278 ->294	-0.11578			
280 ->286	0.15914			
281 ->287	0.17422			
281 ->294	-0.11972			

Excited State 40:	Singlet-A	3.0411 eV	407.70 nm	f=0.0009
280 ->286	-0.14791			
280 ->287	0.11587			
280 ->290	-0.10755			
280 ->291	0.10590			
281 ->286	0.12143			
281 ->287	-0.12271			
281 ->290	0.11509			
281 ->291	-0.11066			
282 ->289	0.33283			
282 ->290	0.18644			
282 ->291	-0.18981			
282 ->292	-0.10778			
282 ->293	-0.10570			
284 ->292	0.11756			
285 ->290	0.14448			
285 ->292	0.14732			

Excited State 41:	Singlet-A	3.0472 eV	406.88 nm	f=0.0271
279 ->286	0.10858			
279 ->295	-0.20670			
282 ->286	-0.15634			
282 ->288	0.21913			
282 ->289	-0.10331			
282 ->297	-0.17217			
284 ->295	0.25819			
285 ->289	0.13396			
285 ->290	0.11026			
285 ->292	0.21571			
285 ->293	-0.11278			

Excited State 42:	Singlet-A	3.0516 eV	406.29 nm	f=0.0479
276 ->288	-0.10792			
277 ->291	-0.11513			
280 ->288	-0.11146			
281 ->288	0.10151			
282 ->286	-0.10868			
282 ->289	-0.13853			
285 ->288	0.13388			
285 ->289	-0.16111			
285 ->291	-0.21525			
285 ->292	-0.15151			
285 ->293	0.23843			

Excited State 43:	Singlet-A	3.0558 eV	405.74 nm	f=0.0285
272 ->289	0.10247			
276 ->291	0.14543			
276 ->292	0.12601			
277 ->288	0.10601			
277 ->291	-0.14385			
277 ->292	-0.12717			
279 ->291	0.10364			
279 ->295	0.13808			
284 ->295	-0.17411			
285 ->289	0.14446			
285 ->290	0.18452			
285 ->292	0.24323			
285 ->293	-0.11288			

Excited State 44:	Singlet-A	3.0660 eV	404.38 nm	f=0.0007
271 ->286	-0.10044			
271 ->287	-0.13856			
274 ->286	-0.13342			
274 ->287	-0.19118			
278 ->286	0.19585			
278 ->287	0.22931			
278 ->294	-0.10744			
280 ->287	-0.13942			
281 ->286	-0.17750			
281 ->287	-0.15544			
281 ->289	-0.10844			
281 ->290	0.12358			
285 ->292	0.10868			

Excited State 45:	Singlet-A	3.0669 eV	404.27 nm	f=0.0099

279 ->295	0.21901
281 ->288	0.13655
282 ->286	-0.20565
282 ->288	0.30705
282 ->290	0.17304
282 ->291	-0.10657
283 ->288	-0.11036
284 ->295	-0.20054
284 ->297	-0.11368

Excited State 46: Singlet-A 3.0718 eV 403.62 nm f=0.0284

278 ->294	-0.11387
280 ->294	0.21394
280 ->296	0.20356
281 ->294	0.28698
281 ->296	0.24962
283 ->289	0.11201
283 ->290	-0.11702
283 ->293	0.15851
285 ->296	0.11449

Excited State 47: Singlet-A 3.0769 eV 402.96 nm f=0.0145

276 ->289	0.12994
276 ->293	0.14930
277 ->286	0.12739
280 ->296	-0.10541
281 ->287	-0.14420
281 ->294	-0.11572
281 ->296	-0.13835
283 ->289	0.10639
283 ->292	-0.12545
283 ->293	0.26679
284 ->286	0.13441
284 ->287	0.18954

Excited State 48: Singlet-A 3.0804 eV 402.49 nm f=0.0024

277 ->288	-0.15389
280 ->288	0.14322
283 ->289	-0.15216
283 ->290	0.17216
283 ->293	-0.13210
284 ->286	0.25683
284 ->287	0.39112
284 ->288	0.18569

284 ->289 0.12082

Excited State 49: Singlet-A 3.0835 eV 402.09 nm f=0.0047
276 ->286 -0.14597
276 ->288 0.10871
276 ->291 -0.10247
277 ->286 -0.12329
277 ->291 0.10974
280 ->287 -0.10798
280 ->288 -0.10576
283 ->288 0.14362
283 ->289 0.11172
283 ->290 -0.16268
284 ->286 0.14895
284 ->287 0.23609
285 ->288 0.13558
285 ->290 0.13694
285 ->291 -0.13178
285 ->293 0.12186

Excited State 50: Singlet-A 3.0847 eV 401.93 nm f=0.0159
276 ->293 0.12483
280 ->286 0.11234
280 ->288 0.15107
283 ->290 0.23835
283 ->293 0.11761
284 ->287 -0.14163
285 ->286 0.10210
285 ->287 -0.10165
285 ->288 0.22025
285 ->290 0.17771
285 ->291 -0.18439
285 ->293 0.19602

Excited State 51: Singlet-A 3.0949 eV 400.61 nm f=0.0104
276 ->286 -0.13489
276 ->289 -0.11406
276 ->293 -0.10116
277 ->287 0.12893
277 ->288 0.16838
280 ->290 -0.17175
281 ->288 0.15265
283 ->290 0.22224
283 ->291 0.28171

283 ->292 -0.22305

Excited State 52: Singlet-A 3.1001 eV 399.94 nm f=0.0071
273 ->286 -0.14252
279 ->286 0.10016
282 ->288 0.17267
282 ->289 -0.12842
282 ->295 -0.21455
282 ->297 0.17750
283 ->295 0.19681
284 ->287 0.10507
284 ->297 0.24628

Excited State 53: Singlet-A 3.1104 eV 398.61 nm f=0.0097
272 ->286 -0.12499
272 ->287 0.11538
272 ->288 -0.10251
273 ->286 0.17880
273 ->287 -0.12309
279 ->289 0.18810
279 ->290 0.12026
279 ->291 -0.12523
282 ->292 -0.10456
282 ->295 -0.15329
282 ->297 0.19614
284 ->287 -0.12245
284 ->288 0.16952
284 ->297 0.18473

Excited State 54: Singlet-A 3.1126 eV 398.33 nm f=0.0027
279 ->289 0.32787
279 ->290 0.25828
279 ->291 -0.27063
279 ->292 -0.10602
285 ->289 0.12464
285 ->291 -0.15198
285 ->292 -0.12463
285 ->293 -0.12641

Excited State 55: Singlet-A 3.1154 eV 397.97 nm f=0.0066
279 ->289 0.15459
279 ->290 0.12610
279 ->291 -0.11805
280 ->289 0.13509

280 ->290	0.10608
280 ->291	-0.17622
281 ->289	-0.10912
281 ->291	0.15521
282 ->291	-0.10828
285 ->289	-0.18540
285 ->291	0.21417
285 ->292	0.19284
285 ->293	0.19488

Excited State 56: Singlet-A 3.1195 eV 397.45 nm f=0.0074

278 ->287	-0.11215
278 ->288	-0.31012
278 ->289	-0.21921
278 ->290	0.44736
278 ->291	0.19692
278 ->292	-0.14573

Excited State 57: Singlet-A 3.1213 eV 397.21 nm f=0.0059

269 ->287	0.14132
273 ->287	0.10603
276 ->286	0.19848
276 ->289	-0.11915
276 ->293	-0.17122
277 ->286	0.30060
277 ->287	0.13762
280 ->290	0.18168
281 ->289	0.12409
281 ->290	-0.11924
281 ->292	-0.10875

Excited State 58: Singlet-A 3.1299 eV 396.13 nm f=0.0019

269 ->286	0.11952
276 ->287	0.26981
277 ->287	0.26411
277 ->290	0.10912
280 ->291	0.15519
280 ->293	-0.11087
281 ->286	-0.12155
281 ->288	0.17626
281 ->293	0.11012
283 ->292	0.10052
285 ->291	0.10931

Excited State 59:	Singlet-A	3.1338 eV	395.64 nm	f=0.0004
284 ->286	0.10823			
284 ->287	0.17255			
284 ->288	-0.30486			
284 ->289	-0.26403			
284 ->290	0.36058			
284 ->291	-0.19806			
284 ->292	0.25468			
Excited State 60:	Singlet-A	3.1409 eV	394.75 nm	f=0.0001
275 ->286	-0.14227			
275 ->288	0.10123			
277 ->287	-0.12048			
280 ->286	-0.17740			
280 ->288	0.25472			
280 ->289	0.10507			
280 ->290	0.10638			
280 ->292	-0.11679			
281 ->286	-0.13678			
281 ->287	0.13646			
281 ->288	0.25417			
281 ->291	0.18396			
285 ->291	-0.13817			
Excited State 61:	Singlet-A	3.1419 eV	394.62 nm	f=0.0020
280 ->292	-0.11295			
281 ->291	0.10748			
281 ->292	0.13576			
282 ->289	0.20332			
282 ->290	0.11834			
282 ->291	0.30544			
282 ->292	0.40049			
283 ->292	-0.12848			
Excited State 62:	Singlet-A	3.1462 eV	394.07 nm	f=0.0007
275 ->286	0.15783			
277 ->286	-0.10708			
280 ->288	0.19128			
280 ->291	0.23567			
280 ->292	-0.12998			
281 ->286	0.10500			
281 ->288	0.15262			
281 ->289	0.23816			
281 ->290	0.10709			

281 ->291	0.16506
281 ->292	-0.15463
282 ->289	-0.10327
285 ->289	-0.10339
285 ->291	0.10743
285 ->292	0.11656
285 ->293	0.10526

Excited State 63: Singlet-A 3.1538 eV 393.12 nm f=0.0019

275 ->286	0.11291
280 ->286	0.15752
280 ->289	0.19213
280 ->291	-0.12108
280 ->292	-0.20175
281 ->286	0.15844
281 ->287	-0.12021
281 ->291	0.22335
283 ->291	-0.10249
285 ->289	0.12103
285 ->290	0.10444
285 ->291	-0.19130
285 ->292	-0.14038
285 ->293	-0.13685

Excited State 64: Singlet-A 3.1647 eV 391.77 nm f=0.0065

271 ->287	-0.11667
271 ->288	-0.13482
271 ->289	-0.10311
271 ->290	0.24730
271 ->291	0.13798
271 ->292	-0.11482
274 ->286	0.14945
274 ->287	0.18939
274 ->288	-0.11638
274 ->289	-0.11249
274 ->290	0.21280
275 ->286	-0.10343
275 ->288	0.10386
280 ->286	0.10483
280 ->291	0.10397
281 ->286	0.12146
281 ->290	0.11470

Excited State 65: Singlet-A 3.1724 eV 390.82 nm f=0.0014

279 ->286	-0.26424
279 ->288	0.41355
279 ->289	-0.16830
279 ->290	0.17295
280 ->286	-0.11000
280 ->287	0.11615
281 ->286	-0.13836
281 ->287	0.11090

Excited State 66: Singlet-A 3.1784 eV 390.09 nm f=0.0039

275 ->286	-0.18244
275 ->288	0.17295
275 ->289	-0.10024
277 ->293	0.13143
279 ->286	-0.12757
279 ->288	0.19349
280 ->286	0.17108
280 ->287	-0.17255
281 ->286	0.18749
281 ->287	-0.15052
283 ->293	0.16159

Excited State 67: Singlet-A 3.1878 eV 388.93 nm f=0.0060

275 ->287	0.12263
275 ->293	0.18686
276 ->286	0.14344
276 ->287	0.10452
277 ->286	0.11274
277 ->288	0.23533
277 ->289	-0.10344
277 ->290	-0.10634
277 ->293	-0.17369
280 ->289	0.13595
281 ->292	-0.10994
282 ->287	0.14065
283 ->293	-0.21613

Excited State 68: Singlet-A 3.1932 eV 388.27 nm f=0.0002

282 ->286	0.15595
282 ->287	0.24356
284 ->290	0.33495
284 ->291	0.34146
284 ->292	-0.31777

Excited State 69:	Singlet-A	3.1936 eV	388.22 nm	f=0.0003
280 ->287	-0.11106			
281 ->287	0.14264			
282 ->286	0.24916			
282 ->287	0.40810			
282 ->288	0.13317			
283 ->287	-0.11389			
284 ->290	-0.20569			
284 ->291	-0.21949			
284 ->292	0.20849			

Excited State 70:	Singlet-A	3.1996 eV	387.49 nm	f=0.0022
275 ->286	-0.10588			
276 ->289	0.10624			
277 ->287	-0.10912			
277 ->290	0.14025			
280 ->287	0.12908			
280 ->288	-0.13653			
280 ->289	0.18052			
280 ->293	0.21443			
281 ->286	-0.11975			
281 ->287	0.11697			
281 ->288	-0.14489			
281 ->289	0.30445			
281 ->292	0.10409			
281 ->293	0.22481			

Excited State 71:	Singlet-A	3.2106 eV	386.17 nm	f=0.0069
275 ->293	0.11526			
276 ->290	0.16500			
276 ->291	0.11539			
277 ->287	-0.18324			
277 ->290	0.23365			
277 ->291	0.16167			
277 ->293	-0.11152			
280 ->286	0.11688			
280 ->289	-0.19130			
280 ->293	-0.11833			
281 ->288	0.12387			
281 ->289	-0.11387			
281 ->290	-0.10200			
281 ->293	-0.12657			

Excited State 72:	Singlet-A	3.2231 eV	384.67 nm	f=0.0038

269 ->290	-0.12489
275 ->286	-0.12704
276 ->289	0.20600
276 ->292	0.22970
277 ->287	0.11241
277 ->289	0.16578
277 ->292	0.28203
277 ->293	-0.10783
280 ->289	-0.10098
280 ->291	-0.10253
282 ->290	-0.10136

Excited State 73: Singlet-A 3.2291 eV 383.95 nm f=0.0024

276 ->287	-0.11468
284 ->289	0.14646
284 ->293	0.61740

Excited State 74: Singlet-A 3.2352 eV 383.24 nm f=0.0131

271 ->286	0.10477
271 ->287	0.13543
276 ->286	0.15017
276 ->287	0.20121
279 ->287	0.11918
279 ->291	-0.13049
279 ->292	-0.16696
279 ->295	0.11686
279 ->297	0.29627
284 ->293	0.12038

Excited State 75: Singlet-A 3.2365 eV 383.09 nm f=0.0174

273 ->289	-0.12057
276 ->286	-0.14839
276 ->287	-0.15339
276 ->288	-0.11309
279 ->291	-0.10735
279 ->295	0.12163
279 ->297	0.34410
282 ->297	-0.10029
283 ->295	-0.10919
284 ->293	-0.17271
284 ->297	0.10056

Excited State 76: Singlet-A 3.2413 eV 382.52 nm f=0.0505

271 ->286	0.10700

271 ->287	0.14555
272 ->286	-0.10224
273 ->287	-0.10561
273 ->289	-0.10453
276 ->288	-0.12093
277 ->287	0.12804
278 ->296	0.37173
279 ->297	-0.11551

Excited State 77: Singlet-A 3.2432 eV 382.29 nm f=0.0048

271 ->287	0.10077
272 ->287	-0.11951
272 ->289	-0.13038
273 ->288	-0.10057
273 ->289	0.13944
275 ->289	0.13167
276 ->287	-0.11186
276 ->289	-0.11498
277 ->286	0.12549
277 ->290	0.11271
278 ->288	0.23219
278 ->291	0.16062
278 ->292	-0.11826

Excited State 78: Singlet-A 3.2454 eV 382.03 nm f=0.0099

273 ->289	0.11840
276 ->288	0.12328
278 ->286	0.12868
278 ->296	0.38801
282 ->290	-0.12513

Excited State 79: Singlet-A 3.2487 eV 381.65 nm f=0.0008

271 ->287	-0.11831
277 ->290	-0.11570
278 ->296	0.17071
279 ->292	-0.15178
281 ->289	-0.11489
282 ->288	-0.24730
282 ->289	-0.22675
282 ->290	0.26063
282 ->291	-0.13593
282 ->292	0.15725

Excited State 80: Singlet-A 3.2505 eV 381.43 nm f=0.0033

275 ->289	-0.14489
276 ->287	0.10767
277 ->287	-0.12216
278 ->286	-0.15784
278 ->287	0.14809
278 ->288	0.32025
278 ->290	0.12680
278 ->291	0.18666
278 ->292	-0.12785
279 ->289	0.10813
279 ->291	0.13411
279 ->292	0.16267
279 ->297	0.12159
281 ->292	-0.10235

Excited State 81: Singlet-A 3.2529 eV 381.15 nm f=0.0029

278 ->288	-0.17302
278 ->291	-0.10883
279 ->286	-0.11712
279 ->287	-0.14620
279 ->289	0.18232
279 ->291	0.20601
279 ->292	0.27380
279 ->297	0.16930
282 ->288	-0.15066
282 ->289	-0.11500
282 ->290	0.18510
282 ->292	0.14709

Excited State 82: Singlet-A 3.2612 eV 380.18 nm f=0.0022

275 ->289	0.10947
275 ->290	0.14215
275 ->292	0.14420
276 ->290	-0.11600
276 ->292	-0.11537
277 ->286	-0.13243
277 ->288	-0.11870
277 ->290	-0.11808
278 ->286	-0.17057
278 ->287	0.13024
279 ->289	0.13037
279 ->291	0.12831
279 ->292	0.16034
280 ->290	0.14739

280 ->292	0.19459			
281 ->290	0.10927			
281 ->292	0.17986			
Excited State 83:	Singlet-A	3.2627 eV	380.01 nm	f=0.0024
278 ->286	0.39086			
278 ->287	-0.26404			
278 ->289	0.22366			
278 ->291	0.25300			
278 ->292	-0.20637			
278 ->296	-0.13202			
Excited State 84:	Singlet-A	3.2684 eV	379.34 nm	f=0.0091
271 ->290	-0.10469			
272 ->289	0.13760			
273 ->291	0.12743			
276 ->288	0.14427			
276 ->291	-0.10955			
277 ->286	0.14444			
277 ->287	-0.15190			
277 ->288	0.15335			
277 ->289	-0.15303			
277 ->290	0.14763			
277 ->291	-0.10980			
277 ->293	0.14159			
280 ->292	0.12138			
280 ->293	-0.14606			
281 ->292	0.16429			
281 ->293	-0.12317			
Excited State 85:	Singlet-A	3.2765 eV	378.40 nm	f=0.0060
271 ->288	-0.13475			
271 ->289	-0.10049			
271 ->290	0.20711			
271 ->291	0.10076			
274 ->288	0.16910			
274 ->290	-0.18155			
275 ->287	0.10197			
275 ->291	0.10583			
277 ->288	0.16779			
277 ->290	-0.17450			
279 ->290	0.10697			
285 ->290	0.10358			

Excited State 86:	Singlet-A	3.2782 eV	378.21 nm	f=0.0007
271 ->286	-0.11920			
271 ->287	-0.12250			
271 ->290	-0.14408			
275 ->286	0.10476			
275 ->287	0.19723			
276 ->287	0.10254			
276 ->288	-0.18919			
276 ->289	-0.11640			
276 ->291	-0.10071			
276 ->292	0.15250			
277 ->289	0.10443			
279 ->288	-0.10041			
280 ->290	0.11155			

Excited State 87:	Singlet-A	3.2820 eV	377.77 nm	f=0.0011
271 ->290	0.11201			
274 ->290	-0.15280			
275 ->286	0.16377			
275 ->289	-0.11681			
275 ->292	-0.14402			
276 ->286	0.11464			
276 ->287	-0.17338			
280 ->292	0.16086			
281 ->288	0.14621			
281 ->290	0.16489			
281 ->291	-0.10217			
281 ->292	0.18811			

Excited State 88:	Singlet-A	3.2884 eV	377.03 nm	f=0.0025
269 ->287	0.12447			
271 ->286	0.13494			
271 ->287	0.17779			
272 ->286	0.10792			
272 ->288	-0.11447			
273 ->286	0.10146			
273 ->288	-0.14869			
274 ->290	0.13146			
275 ->286	-0.11555			
276 ->286	-0.12234			
276 ->290	-0.11290			
276 ->291	-0.10279			
279 ->287	0.15896			
280 ->290	0.16525			

281 ->290 0.15282

Excited State 89: Singlet-A 3.2931 eV 376.50 nm f=0.0014
275 ->289 -0.10013
280 ->288 -0.13549
280 ->291 0.19539
280 ->292 0.10173
280 ->293 -0.21962
281 ->288 -0.15503
281 ->290 -0.10411
281 ->291 0.24013
281 ->293 -0.22885

Excited State 90: Singlet-A 3.2950 eV 376.28 nm f=0.0018
275 ->292 -0.10063
277 ->286 0.11213
277 ->287 0.19178
279 ->286 0.25786
279 ->287 0.42421
279 ->288 0.15991

Excited State 91: Singlet-A 3.3025 eV 375.42 nm f=0.0015
276 ->287 -0.11767
281 ->291 0.11205
281 ->292 -0.12527
282 ->290 0.26782
282 ->291 0.31403
282 ->292 -0.30748
283 ->291 -0.11878

Excited State 92: Singlet-A 3.3055 eV 375.09 nm f=0.0023
272 ->286 0.11827
273 ->290 -0.11462
275 ->286 -0.17501
275 ->289 -0.14448
276 ->287 0.20475
278 ->289 0.12978
279 ->287 -0.12443
280 ->291 -0.10322
280 ->292 0.13358
282 ->290 0.16752
282 ->291 0.20858
282 ->292 -0.17311

Excited State 93:	Singlet-A	3.3097 eV	374.61 nm	f=0.0003
277 ->289	0.11676			
278 ->286	-0.17338			
278 ->287	0.15989			
278 ->288	-0.21504			
278 ->289	0.41934			
278 ->293	0.30931			

Excited State 94:	Singlet-A	3.3115 eV	374.40 nm	f=0.0004
275 ->291	0.15151			
275 ->292	0.13993			
276 ->290	0.13722			
276 ->291	-0.16794			
276 ->292	-0.13481			
277 ->289	0.16139			
277 ->290	0.11229			
277 ->291	-0.16394			
277 ->292	-0.16195			
277 ->293	-0.10602			
278 ->289	-0.14543			
278 ->293	-0.10309			
281 ->293	0.11652			
283 ->295	0.19324			

Excited State 95:	Singlet-A	3.3147 eV	374.05 nm	f=0.0132
273 ->295	-0.10162			
277 ->289	-0.10609			
277 ->295	0.10209			
279 ->295	0.13443			
280 ->295	-0.17701			
281 ->295	0.13447			
282 ->295	0.19720			
283 ->295	0.47770			

Excited State 96:	Singlet-A	3.3309 eV	372.22 nm	f=0.0028
270 ->286	-0.12980			
272 ->286	0.16113			
274 ->290	0.11735			
275 ->290	0.16594			
276 ->289	-0.16959			
276 ->290	0.32361			
276 ->291	0.14359			
277 ->290	-0.15022			
279 ->288	-0.12825			

279 ->289 -0.12502
279 ->290 0.20973

Excited State 97: Singlet-A 3.3354 eV 371.72 nm f=0.0016
270 ->286 -0.11139
272 ->287 -0.13302
275 ->288 0.18104
275 ->291 -0.10069
276 ->288 0.21886
276 ->290 -0.14893
276 ->291 -0.17691
276 ->292 0.23991
277 ->291 0.18010

Excited State 98: Singlet-A 3.3436 eV 370.81 nm f=0.0019
270 ->286 0.16441
270 ->288 0.13405
272 ->290 -0.12156
273 ->288 0.16511
273 ->289 0.17086
273 ->292 -0.13057
275 ->288 0.20986
275 ->292 -0.11103
277 ->290 0.14492
277 ->292 -0.13792
279 ->291 -0.10553
279 ->292 0.11837

Excited State 99: Singlet-A 3.3452 eV 370.64 nm f=0.0006
276 ->292 0.11576
277 ->289 -0.10459
277 ->291 0.11700
280 ->289 -0.15561
280 ->290 -0.10205
280 ->291 0.22602
280 ->292 0.17267
280 ->293 0.18772
281 ->289 -0.19420
281 ->290 -0.11703
281 ->291 0.27633
281 ->292 0.21654
281 ->293 0.23751

Excited State 100: Singlet-A 3.3506 eV 370.04 nm f=0.0007

275 ->287	0.13978			
275 ->290	0.10874			
276 ->289	-0.12829			
276 ->290	0.16217			
277 ->288	0.10013			
277 ->289	0.10396			
279 ->287	-0.10067			
279 ->288	0.28048			
279 ->289	0.22305			
279 ->290	-0.27219			
279 ->291	0.15431			
279 ->292	-0.21702			
Excited State 101:	Singlet-A	3.3529 eV	369.78 nm	f=0.0002
280 ->293	-0.15610			
281 ->293	0.15087			
282 ->289	0.12806			
282 ->293	0.57719			
283 ->293	-0.16890			
Excited State 102:	Singlet-A	3.3568 eV	369.35 nm	f=0.0014
268 ->286	-0.12988			
273 ->291	0.10981			
275 ->287	0.19000			
275 ->288	-0.17631			
275 ->290	-0.10212			
276 ->286	-0.11980			
276 ->290	-0.10668			
276 ->291	0.14518			
276 ->293	-0.11315			
277 ->293	0.11529			
280 ->294	0.19419			
281 ->294	-0.15336			
282 ->293	0.15477			
282 ->294	0.15954			
283 ->294	0.17822			
Excited State 103:	Singlet-A	3.3581 eV	369.21 nm	f=0.0019
268 ->289	-0.21773			
268 ->290	-0.10789			
270 ->286	0.10272			
270 ->289	-0.11042			
270 ->290	-0.15518			
270 ->291	0.23449			

270 ->292	0.11831			
272 ->289	0.12680			
272 ->290	0.13843			
275 ->288	0.10192			
276 ->293	0.13031			
277 ->289	-0.14602			
277 ->290	-0.11125			
277 ->291	0.17412			
277 ->292	0.10776			
Excited State 104:	Singlet-A	3.3599 eV	369.02 nm	f=0.0022
268 ->286	0.10214			
270 ->287	-0.11024			
275 ->287	-0.17061			
280 ->294	0.31339			
281 ->294	-0.23605			
282 ->294	0.24491			
283 ->294	0.28142			
Excited State 105:	Singlet-A	3.3653 eV	368.42 nm	f=0.0052
268 ->288	-0.12208			
268 ->291	0.10198			
269 ->290	-0.10911			
270 ->286	-0.18541			
270 ->287	0.12654			
272 ->291	-0.13519			
275 ->288	-0.12069			
275 ->289	0.16860			
275 ->291	0.11995			
277 ->291	0.16682			
278 ->290	0.10082			
278 ->292	0.20188			
278 ->293	-0.11237			
Excited State 106:	Singlet-A	3.3686 eV	368.06 nm	f=0.0016
278 ->287	-0.12554			
278 ->288	0.14667			
278 ->289	0.14807			
278 ->290	0.29196			
278 ->292	0.45675			
278 ->293	-0.15762			
Excited State 107:	Singlet-A	3.3782 eV	367.01 nm	f=0.0027
268 ->286	0.14502			

269 ->287	-0.11077
269 ->290	0.10953
270 ->288	0.19835
270 ->289	-0.17963
272 ->287	-0.10187
272 ->288	-0.12973
272 ->292	-0.13326
273 ->290	0.10685
273 ->292	-0.12015
275 ->287	0.13366
276 ->289	0.11218
277 ->286	0.10164
277 ->290	-0.12205

Excited State 108: Singlet-A 3.3866 eV 366.10 nm f=0.0006

270 ->286	-0.10310
270 ->289	0.18044
272 ->293	0.11806
273 ->291	0.12989
275 ->287	-0.15175
275 ->290	-0.13177
275 ->292	-0.19412
276 ->293	0.21239
277 ->293	-0.16941
279 ->293	0.12314

Excited State 109: Singlet-A 3.3897 eV 365.77 nm f=0.0004

278 ->286	0.10734
278 ->287	-0.11594
278 ->288	0.25345
278 ->289	-0.10064
278 ->290	0.25056
278 ->291	-0.36451
278 ->293	0.40741

Excited State 110: Singlet-A 3.3911 eV 365.62 nm f=0.0023

273 ->297	-0.11417
277 ->297	0.10946
280 ->297	-0.17563
281 ->297	0.11604
282 ->297	0.10717
283 ->297	0.59036

Excited State 111: Singlet-A 3.4005 eV 364.61 nm f=0.0017

268 ->289	-0.14926			
270 ->287	-0.10556			
270 ->291	0.10823			
272 ->293	-0.12617			
275 ->286	-0.10981			
275 ->287	-0.19133			
275 ->291	0.17629			
276 ->293	-0.17354			
277 ->290	-0.10998			
277 ->293	0.11612			
279 ->290	-0.20130			
279 ->291	-0.17908			
279 ->292	0.20295			
279 ->293	-0.12384			
Excited State 112:	Singlet-A	3.4054 eV	364.08 nm	f=0.0016
275 ->286	-0.10831			
275 ->287	-0.14202			
275 ->290	-0.15583			
275 ->291	0.10792			
277 ->291	0.14560			
279 ->290	0.23620			
279 ->291	0.31238			
279 ->292	-0.29092			
279 ->293	-0.10196			
Excited State 113:	Singlet-A	3.4074 eV	363.86 nm	f=0.0042
268 ->286	0.11040			
268 ->289	-0.19333			
268 ->291	-0.11047			
268 ->292	-0.22356			
270 ->288	0.13889			
270 ->289	0.12323			
270 ->290	0.14222			
270 ->292	0.23742			
272 ->288	-0.12035			
272 ->290	-0.10558			
277 ->292	-0.19293			
279 ->290	0.12184			
279 ->291	0.14183			
279 ->292	-0.11136			
Excited State 114:	Singlet-A	3.4138 eV	363.19 nm	f=0.0022
268 ->291	-0.10856			

268 ->292	-0.10529
270 ->288	-0.10096
275 ->289	0.23317
275 ->290	0.12679
275 ->291	-0.21207
275 ->292	-0.18507
276 ->289	0.19417
276 ->290	0.13400
276 ->291	-0.22739
276 ->293	-0.20054
279 ->293	-0.13233

Excited State 115: Singlet-A 3.4269 eV 361.80 nm f=0.0042

269 ->288	-0.12806
271 ->288	0.16880
271 ->291	0.11028
271 ->292	-0.10797
272 ->288	0.15467
272 ->292	-0.11944
273 ->288	0.10051
273 ->292	-0.13873
274 ->288	0.21014
274 ->289	0.22288
274 ->291	0.24305
275 ->292	0.10252

Excited State 116: Singlet-A 3.4294 eV 361.53 nm f=0.0019

270 ->288	-0.10483
272 ->289	-0.17563
272 ->291	-0.10214
272 ->292	-0.14268
273 ->289	-0.16211
273 ->292	-0.11878
274 ->288	-0.18807
274 ->292	0.23627
275 ->290	0.11238
275 ->291	0.14395
275 ->292	0.20111
275 ->293	-0.12596
276 ->292	0.13221
279 ->293	0.13228

Excited State 117: Singlet-A 3.4387 eV 360.55 nm f=0.0018

271 ->294	-0.12386

272 ->286	-0.11141
272 ->288	0.14551
273 ->288	-0.10393
274 ->286	-0.21528
274 ->289	-0.15475
274 ->293	-0.11757
274 ->294	0.24067
280 ->294	0.10763
283 ->294	-0.19326

Excited State 118: Singlet-A 3.4414 eV 360.27 nm f=0.0006

278 ->289	-0.25083
278 ->290	-0.15204
278 ->291	0.35760
278 ->292	0.28718
278 ->293	0.35174
279 ->293	-0.11800

Excited State 119: Singlet-A 3.4439 eV 360.01 nm f=0.0133

268 ->286	-0.14171
272 ->286	0.13657
272 ->288	-0.14477
273 ->286	-0.12053
273 ->288	0.18055
273 ->289	-0.12578
274 ->294	0.19564
279 ->293	0.10529
280 ->294	0.12082
283 ->294	-0.19112
285 ->298	0.12342
285 ->299	0.10198

Excited State 120: Singlet-A 3.4509 eV 359.28 nm f=0.0008

272 ->288	0.12824
273 ->293	-0.12656
276 ->293	-0.17114
279 ->289	0.12095
279 ->293	0.50785

Excited State 121: Singlet-A 3.4557 eV 358.78 nm f=0.0117

269 ->288	-0.14210
269 ->291	-0.12694
269 ->292	0.10157
271 ->288	0.12456

271 ->291	0.13492
271 ->292	-0.11548
273 ->288	-0.11975
274 ->288	-0.25318
274 ->291	-0.16097
279 ->293	-0.15354
280 ->294	-0.13318
283 ->294	0.27303
285 ->298	0.10533

Excited State 122: Singlet-A 3.4596 eV 358.38 nm f=0.0026

271 ->286	0.10338
273 ->286	0.17967
273 ->288	-0.12837
273 ->289	0.12014
274 ->286	0.28773
274 ->287	-0.14529
274 ->288	-0.10513
274 ->289	0.18760
274 ->293	0.12834
280 ->294	0.13924
283 ->294	-0.24318

Excited State 123: Singlet-A 3.4628 eV 358.05 nm f=0.0191

273 ->292	-0.10056
283 ->294	0.14866
285 ->298	0.37138
285 ->299	0.32224

Excited State 124: Singlet-A 3.4679 eV 357.52 nm f=0.0008

273 ->288	-0.10446
273 ->293	0.10186
274 ->286	0.18947
274 ->287	-0.14757
275 ->290	0.29387
275 ->291	0.16343
275 ->292	-0.14318
275 ->293	0.18478
277 ->293	0.15164
279 ->293	0.15725

Excited State 125: Singlet-A 3.4717 eV 357.13 nm f=0.0007

272 ->288	0.12982
273 ->293	-0.12846

274 ->286	-0.10964			
274 ->287	0.11843			
274 ->293	0.10512			
275 ->289	-0.14767			
275 ->290	0.24385			
275 ->291	0.17822			
275 ->292	-0.19012			
275 ->293	-0.21826			
276 ->290	-0.11317			
276 ->291	-0.10210			
277 ->293	-0.15575			
279 ->293	-0.13895			
Excited State 126:	Singlet-A	3.4843 eV	355.83 nm	f=0.0016
271 ->294	-0.14204			
274 ->294	0.27249			
280 ->294	-0.11690			
280 ->296	0.25093			
281 ->296	-0.21332			
282 ->296	0.20550			
283 ->294	0.20775			
283 ->296	0.23271			
Excited State 127:	Singlet-A	3.4852 eV	355.75 nm	f=0.0013
271 ->294	0.13419			
274 ->294	-0.25905			
280 ->294	0.11515			
280 ->296	0.27603			
281 ->296	-0.21366			
282 ->296	0.22524			
283 ->294	-0.19278			
283 ->296	0.27527			
Excited State 128:	Singlet-A	3.4935 eV	354.90 nm	f=0.0006
285 ->295	0.69206			
Excited State 129:	Singlet-A	3.4957 eV	354.68 nm	f=0.0014
268 ->286	0.18043			
269 ->287	-0.14745			
269 ->293	-0.14212			
270 ->286	0.11221			
270 ->288	-0.16470			
270 ->289	0.10991			
270 ->293	0.11857			

271 ->293	0.13319			
272 ->286	0.13203			
273 ->287	0.11059			
273 ->288	0.10070			
273 ->290	0.13258			
273 ->293	0.11192			
274 ->286	-0.17284			
274 ->287	0.11824			
274 ->288	-0.13170			
274 ->289	0.11323			
274 ->293	0.15490			
275 ->293	0.11318			
277 ->293	0.13291			
Excited State 130:	Singlet-A	3.4976 eV	354.49 nm	f=0.0246
268 ->286	0.11035			
268 ->288	-0.12787			
270 ->286	0.13487			
270 ->287	-0.10052			
270 ->288	-0.11594			
271 ->293	-0.10403			
272 ->287	-0.13673			
273 ->288	0.15394			
274 ->286	0.12109			
274 ->293	-0.13236			
283 ->298	0.28022			
283 ->299	-0.20652			
Excited State 131:	Singlet-A	3.5039 eV	353.85 nm	f=0.0078
272 ->286	-0.14162			
272 ->287	0.12968			
272 ->288	-0.12122			
273 ->286	-0.10362			
273 ->287	0.13327			
273 ->288	-0.14620			
273 ->290	-0.10255			
274 ->290	0.13963			
274 ->293	0.14660			
283 ->298	0.28521			
283 ->299	-0.25064			
Excited State 132:	Singlet-A	3.5061 eV	353.62 nm	f=0.0004
284 ->294	0.69638			

Excited State 133:	Singlet-A	3.5126 eV	352.97 nm	f=0.0142
268 ->286	-0.16420			
268 ->289	-0.11244			
270 ->288	0.25088			
270 ->290	0.13316			
270 ->291	-0.11344			
272 ->290	0.14169			
272 ->293	0.12038			
273 ->286	0.17796			
273 ->287	-0.10246			
273 ->291	-0.12523			
273 ->293	0.14547			
274 ->288	-0.12543			
274 ->289	0.10972			
283 ->298	0.16454			
283 ->299	-0.14469			

Excited State 134:	Singlet-A	3.5217 eV	352.05 nm	f=0.0046
269 ->286	0.16223			
269 ->287	0.10260			
269 ->293	0.12222			
271 ->288	0.12459			
271 ->293	-0.12578			
272 ->289	0.12815			
272 ->293	0.11313			
273 ->286	-0.10775			
273 ->289	0.16491			
273 ->293	0.18321			
274 ->288	-0.14152			
274 ->289	0.26071			
274 ->292	0.11443			
274 ->293	0.21609			
274 ->294	0.11297			

Excited State 135:	Singlet-A	3.5265 eV	351.58 nm	f=0.0026
268 ->286	0.13807			
268 ->292	-0.17007			
272 ->289	0.24113			
272 ->291	0.23597			
272 ->292	0.26633			
273 ->289	-0.16648			
273 ->290	-0.11683			
273 ->291	-0.13409			
273 ->292	-0.23887			

Excited State 136:	Singlet-A	3.5381 eV	350.43 nm	f=0.0027
269 ->286	0.13531			
269 ->287	0.22423			
269 ->289	-0.16791			
269 ->293	-0.19150			
270 ->289	0.14958			
270 ->293	0.11354			
271 ->289	0.16028			
271 ->293	0.15986			
272 ->286	-0.12829			
272 ->287	-0.17944			
273 ->287	-0.14923			
274 ->292	0.10629			
275 ->293	0.15156			

Excited State 137:	Singlet-A	3.5500 eV	349.26 nm	f=0.0019
268 ->288	-0.16479			
270 ->286	0.20066			
270 ->287	0.24720			
270 ->288	0.18349			
270 ->289	0.11190			
270 ->291	0.12980			
272 ->286	-0.14112			
272 ->287	-0.16635			
272 ->288	-0.17944			
272 ->289	-0.10672			
272 ->292	0.12289			
273 ->287	0.11968			
275 ->287	-0.10933			
275 ->292	0.11654			

Excited State 138:	Singlet-A	3.5537 eV	348.88 nm	f=0.0013
271 ->296	-0.18116			
274 ->289	-0.12306			
274 ->292	-0.10132			
274 ->296	0.36938			
275 ->296	-0.12966			
276 ->296	-0.13062			
280 ->296	0.11420			
281 ->296	-0.18026			
283 ->296	-0.32444			
285 ->296	0.12282			

Excited State 139:	Singlet-A	3.5659 eV	347.70 nm	f=0.0015
271 ->292	0.11780			
273 ->292	0.13853			
274 ->287	-0.11508			
274 ->289	0.19775			
274 ->290	0.20751			
274 ->292	0.35941			
274 ->293	-0.24703			
274 ->296	0.10606			
275 ->292	-0.10189			
283 ->296	-0.13182			
Excited State 140:	Singlet-A	3.5720 eV	347.10 nm	f=0.0009
285 ->297	0.65647			
Excited State 141:	Singlet-A	3.5725 eV	347.05 nm	f=0.0099
268 ->292	-0.11636			
270 ->289	-0.10630			
273 ->292	0.12044			
280 ->295	0.11019			
283 ->301	-0.18958			
284 ->298	-0.21946			
284 ->299	0.27213			
284 ->301	0.20001			
285 ->297	-0.21172			
Excited State 142:	Singlet-A	3.5770 eV	346.61 nm	f=0.0012
268 ->286	0.14391			
268 ->287	-0.12780			
268 ->288	0.17916			
268 ->289	-0.11098			
268 ->291	-0.10083			
269 ->286	-0.12593			
270 ->292	-0.14085			
271 ->286	0.29092			
271 ->287	-0.22325			
274 ->286	-0.11595			
Excited State 143:	Singlet-A	3.5774 eV	346.57 nm	f=0.0010
270 ->289	0.13799			
270 ->290	0.10229			
272 ->289	0.16024			
272 ->290	0.13193			
272 ->291	-0.11264			

272 ->293	-0.11794
273 ->291	-0.19380
273 ->292	-0.13489
273 ->293	-0.13481
274 ->291	0.16064
274 ->292	0.15707
280 ->295	0.22786
281 ->295	-0.20066
282 ->295	0.15161
283 ->295	0.10702

Excited State 144: Singlet-A 3.5817 eV 346.16 nm f=0.0002

268 ->288	0.12917
274 ->292	-0.10562
280 ->295	0.33118
281 ->295	-0.29748
282 ->295	0.22043
283 ->295	0.14325

Excited State 145: Singlet-A 3.5838 eV 345.96 nm f=0.0007

268 ->288	-0.22703
268 ->290	-0.10210
269 ->286	-0.13095
269 ->287	0.15509
270 ->287	-0.18972
271 ->286	0.23686
271 ->287	-0.13249
271 ->288	-0.13004
271 ->290	-0.10086
272 ->287	0.12356
272 ->291	0.13230
272 ->293	0.10654
273 ->286	-0.10919
273 ->289	-0.11926
273 ->293	0.12486

Excited State 146: Singlet-A 3.5913 eV 345.23 nm f=0.0143

268 ->288	0.17083
268 ->289	0.12741
268 ->290	0.16938
268 ->292	0.17181
270 ->289	0.11076
270 ->291	0.19545
270 ->292	0.20992

272 ->292	0.10026			
273 ->289	-0.12027			
273 ->290	-0.11020			
273 ->292	-0.10712			
280 ->295	-0.10462			
281 ->295	0.10451			
284 ->298	-0.17436			
284 ->299	0.19864			
284 ->301	0.12534			
Excited State 147:	Singlet-A	3.5948 eV	344.90 nm	f=0.0010
269 ->288	-0.18349			
269 ->289	-0.12922			
269 ->290	0.14478			
271 ->296	-0.11798			
274 ->296	0.23393			
280 ->296	-0.22971			
281 ->296	0.10236			
283 ->296	0.33178			
Excited State 148:	Singlet-A	3.5956 eV	344.82 nm	f=0.0007
269 ->288	0.21060			
269 ->289	0.13853			
269 ->290	-0.19208			
270 ->291	0.10967			
271 ->288	0.10040			
272 ->290	0.14028			
273 ->290	0.15043			
274 ->296	0.17681			
280 ->296	-0.17227			
283 ->296	0.25057			
Excited State 149:	Singlet-A	3.6002 eV	344.38 nm	f=0.0000
280 ->294	-0.19259			
281 ->294	0.21742			
282 ->294	0.62306			
283 ->294	-0.14122			
Excited State 150:	Singlet-A	3.6010 eV	344.30 nm	f=0.0038
272 ->295	0.21850			
273 ->295	-0.18529			
275 ->295	0.16142			
276 ->295	-0.25264			
277 ->295	0.32610			

283 ->295	-0.12378			
283 ->301	-0.16094			
Excited State 151:	Singlet-A	3.6039 eV	344.03 nm	f=0.0008
271 ->286	-0.14519			
271 ->287	0.11464			
273 ->291	0.11582			
273 ->293	-0.10391			
274 ->286	-0.11132			
274 ->287	0.13067			
274 ->288	-0.24597			
274 ->290	-0.25497			
274 ->291	0.26294			
274 ->293	-0.25851			
Excited State 152:	Singlet-A	3.6064 eV	343.79 nm	f=0.0006
270 ->288	0.15216			
270 ->289	0.14977			
270 ->290	-0.14942			
270 ->291	0.11760			
270 ->292	-0.13450			
272 ->286	0.22457			
272 ->287	0.30683			
273 ->286	-0.15776			
273 ->287	-0.27295			
Excited State 153:	Singlet-A	3.6104 eV	343.41 nm	f=0.0001
270 ->286	0.23834			
270 ->287	0.32966			
270 ->290	0.14760			
270 ->292	0.11155			
271 ->287	-0.11102			
272 ->288	0.18729			
272 ->289	0.14650			
272 ->290	-0.10636			
272 ->291	0.16895			
272 ->292	-0.15552			
273 ->287	-0.10833			
273 ->288	-0.16568			
273 ->289	-0.11386			
275 ->287	-0.10873			
Excited State 154:	Singlet-A	3.6141 eV	343.06 nm	f=0.0124
269 ->291	0.11815			

269 ->292	-0.13008
271 ->289	0.16233
274 ->296	0.13469
280 ->298	0.20219
280 ->299	0.18825
281 ->298	-0.15514
281 ->299	-0.14008
282 ->298	0.13523
282 ->299	0.12875
283 ->299	0.11247
285 ->300	0.13450
285 ->302	0.13333
285 ->304	0.12317

Excited State 155: Singlet-A 3.6189 eV 342.60 nm f=0.0025

269 ->290	0.12401
269 ->291	0.19510
269 ->292	-0.10878
271 ->288	0.13780
271 ->291	0.10468
276 ->295	0.10933
277 ->295	-0.12972
280 ->300	-0.13444
280 ->301	0.10306
281 ->300	0.11038
282 ->300	-0.12683
283 ->299	-0.14068
283 ->300	-0.18553
283 ->301	-0.12696

Excited State 156: Singlet-A 3.6219 eV 342.32 nm f=0.0001

284 ->296	0.69763

Excited State 157: Singlet-A 3.6233 eV 342.18 nm f=0.0031

268 ->291	-0.15050
269 ->290	0.14682
269 ->291	0.18581
269 ->292	-0.17830
271 ->288	0.13127
277 ->295	0.10199
283 ->301	0.22228
285 ->300	-0.14280

Excited State 158: Singlet-A 3.6298 eV 341.58 nm f=0.0088

280 ->300	-0.18386
281 ->300	0.20787
282 ->300	-0.15389
283 ->300	-0.10314
283 ->301	0.19403
283 ->303	-0.10461
285 ->300	0.26851
285 ->302	0.15173
285 ->304	0.12383

Excited State 159:	Singlet-A	3.6393 eV	340.68 nm	f=0.0002
269 ->288	0.11758			
274 ->294	0.12894			
276 ->294	0.34928			
277 ->294	0.46954			
279 ->294	-0.12133			

Excited State 160:	Singlet-A	3.6456 eV	340.10 nm	f=0.0001
269 ->286	0.31270			
269 ->287	-0.19875			
269 ->288	-0.18192			
269 ->289	0.14212			
269 ->293	0.10016			
270 ->286	0.10108			
271 ->286	0.15748			
271 ->287	-0.10418			
271 ->288	-0.14155			
271 ->289	0.20162			
271 ->293	0.10931			
276 ->294	0.12505			
277 ->294	0.17825			

Excited State 161:	Singlet-A	3.6515 eV	339.54 nm	f=0.0061
268 ->289	0.24114			
268 ->290	0.13043			
268 ->291	-0.23391			
268 ->292	-0.17576			
270 ->289	-0.19097			
270 ->290	-0.11901			
270 ->291	0.13880			
270 ->292	0.13297			
271 ->289	0.10690			
272 ->293	0.10608			
275 ->291	0.10935			

275 ->293	0.16963			
283 ->303	0.16041			
Excited State 162:	Singlet-A	3.6543 eV	339.28 nm	f=0.0018
271 ->286	0.10396			
274 ->298	0.10564			
280 ->297	-0.11484			
280 ->298	-0.17369			
280 ->299	-0.12249			
283 ->300	0.10011			
285 ->300	0.12545			
285 ->302	0.29373			
285 ->304	-0.13598			
285 ->305	0.23021			
Excited State 163:	Singlet-A	3.6581 eV	338.93 nm	f=0.0001
270 ->287	-0.16227			
270 ->289	0.10566			
270 ->290	-0.13959			
270 ->291	0.11056			
270 ->292	-0.14980			
272 ->287	-0.15150			
272 ->288	0.15127			
272 ->289	0.11759			
272 ->290	-0.17237			
272 ->292	-0.12523			
273 ->287	0.17470			
273 ->288	-0.16192			
273 ->289	-0.12622			
273 ->290	0.16044			
273 ->291	-0.11029			
273 ->292	0.16865			
280 ->297	-0.15281			
281 ->297	0.13403			
282 ->297	-0.11060			
Excited State 164:	Singlet-A	3.6601 eV	338.74 nm	f=0.0012
280 ->297	0.37088			
281 ->297	-0.33704			
282 ->297	0.25895			
283 ->297	0.15403			
285 ->304	-0.10978			
Excited State 165:	Singlet-A	3.6621 eV	338.56 nm	f=0.0000

271 ->289	-0.11891
272 ->291	0.11063
273 ->289	-0.11225
273 ->291	0.12310
273 ->292	0.10086
273 ->293	0.11925
274 ->289	-0.23707
274 ->290	-0.14928
274 ->291	0.32127
274 ->292	0.24719
274 ->293	0.27411

Excited State 166: Singlet-A 3.6736 eV 337.50 nm f=0.0005

269 ->286	-0.10447
269 ->289	-0.12569
269 ->292	-0.14087
269 ->293	0.17053
271 ->289	0.30042
271 ->290	0.18737
271 ->291	0.12202
271 ->292	0.36741

Excited State 167: Singlet-A 3.6779 eV 337.10 nm f=0.0077

270 ->293	0.11081
270 ->295	-0.10044
272 ->295	-0.11580
273 ->295	0.17543
275 ->295	0.12778
276 ->294	0.15200
276 ->295	-0.16113
279 ->294	0.19296
281 ->295	0.10678
281 ->298	0.13452
283 ->303	0.14952
285 ->304	0.12156

Excited State 168: Singlet-A 3.6795 eV 336.96 nm f=0.0002

273 ->295	-0.12802
274 ->294	0.12073
275 ->294	0.13506
276 ->294	0.30958
276 ->295	0.11810
277 ->294	-0.14889
279 ->294	0.47798

Excited State 169:	Singlet-A	3.6826 eV	336.67 nm	f=0.0037
270 ->290	-0.14482			
270 ->295	-0.10025			
272 ->290	0.12434			
272 ->291	0.10400			
272 ->295	-0.12434			
273 ->295	0.18260			
275 ->295	0.13249			
276 ->295	-0.16684			
279 ->294	0.15081			
281 ->295	0.17556			
281 ->298	-0.13213			
283 ->303	-0.11464			
284 ->303	-0.10022			
285 ->304	-0.14341			

Excited State 170:	Singlet-A	3.6846 eV	336.49 nm	f=0.0038
270 ->288	-0.11072			
270 ->289	-0.11508			
270 ->290	0.26564			
270 ->291	0.17458			
270 ->292	-0.13011			
270 ->293	-0.11708			
272 ->290	-0.20147			
272 ->291	-0.16634			
272 ->292	0.17360			
272 ->293	0.12428			
281 ->298	-0.11040			
285 ->304	-0.12206			

Excited State 171:	Singlet-A	3.6858 eV	336.39 nm	f=0.0004
268 ->293	-0.11875			
269 ->286	-0.12359			
269 ->289	0.17495			
269 ->290	0.10188			
269 ->292	0.11921			
269 ->293	0.16224			
270 ->293	0.30642			
271 ->286	-0.11666			
271 ->287	0.13958			
271 ->288	-0.13711			
271 ->293	0.10238			
272 ->293	-0.18817			

273 ->293	0.10127			
275 ->293	-0.10053			
Excited State 172:	Singlet-A	3.6899 eV	336.01 nm	f=0.0064
269 ->289	0.12557			
269 ->293	0.17320			
270 ->293	-0.13871			
271 ->287	0.10250			
271 ->288	-0.12086			
271 ->293	0.17873			
272 ->293	0.18197			
272 ->297	0.13051			
273 ->297	-0.11168			
276 ->297	-0.13588			
277 ->297	0.18824			
281 ->295	0.11396			
283 ->300	0.10303			
Excited State 173:	Singlet-A	3.6916 eV	335.85 nm	f=0.0001
270 ->293	0.19900			
272 ->293	-0.16605			
272 ->297	0.16009			
273 ->297	-0.14092			
275 ->297	0.11341			
276 ->297	-0.18889			
277 ->297	0.25037			
280 ->295	0.23021			
281 ->295	0.26229			
Excited State 174:	Singlet-A	3.6935 eV	335.68 nm	f=0.0003
272 ->295	0.12206			
272 ->297	-0.12681			
273 ->295	-0.15057			
273 ->297	0.11511			
276 ->295	0.12541			
276 ->297	0.13739			
277 ->297	-0.18658			
280 ->295	0.39834			
281 ->295	0.36433			
Excited State 175:	Singlet-A	3.6990 eV	335.18 nm	f=0.0019
268 ->286	0.21018			
268 ->287	0.31116			
268 ->288	0.24999			

268 ->289	0.20219			
268 ->291	0.19735			
268 ->292	-0.20198			
269 ->287	0.10705			
269 ->289	0.11192			
Excited State 176:	Singlet-A	3.7037 eV	334.76 nm	f=0.0081
268 ->287	0.10466			
268 ->288	0.11489			
276 ->298	-0.11291			
281 ->299	-0.11907			
281 ->300	0.10152			
282 ->299	0.11834			
283 ->298	0.10101			
283 ->299	0.15331			
283 ->300	-0.12804			
283 ->303	0.18952			
283 ->305	0.11035			
285 ->304	-0.14317			
285 ->310	0.16271			
Excited State 177:	Singlet-A	3.7074 eV	334.43 nm	f=0.0005
269 ->286	-0.16796			
269 ->287	0.13919			
269 ->288	-0.22511			
269 ->289	0.14345			
271 ->286	0.10284			
271 ->287	-0.11450			
271 ->288	0.24265			
271 ->290	0.26080			
271 ->291	-0.21632			
271 ->292	0.10023			
271 ->293	0.26868			
Excited State 178:	Singlet-A	3.7135 eV	333.88 nm	f=0.0003
274 ->294	-0.12488			
275 ->294	-0.20605			
276 ->294	-0.31390			
277 ->294	0.36602			
279 ->294	0.42795			
Excited State 179:	Singlet-A	3.7157 eV	333.68 nm	f=0.0000
280 ->296	-0.19769			
281 ->296	0.21649			

282 ->296	0.62268			
283 ->296	-0.13900			
Excited State 180:	Singlet-A	3.7207 eV	333.22 nm	f=0.0083
273 ->295	0.12072			
276 ->297	0.11387			
277 ->297	-0.11603			
283 ->301	0.12238			
284 ->300	-0.20901			
284 ->301	0.17973			
284 ->302	0.11763			
284 ->303	0.33232			
284 ->307	-0.16123			
Excited State 181:	Singlet-A	3.7267 eV	332.69 nm	f=0.0013
270 ->290	-0.10483			
272 ->291	-0.10741			
273 ->290	0.10655			
273 ->292	-0.10028			
280 ->300	-0.10857			
281 ->300	0.13860			
283 ->300	0.22651			
283 ->301	-0.13108			
283 ->304	-0.14189			
283 ->306	0.13707			
285 ->310	0.19439			
Excited State 182:	Singlet-A	3.7290 eV	332.48 nm	f=0.0009
270 ->290	-0.21865			
270 ->291	-0.20575			
270 ->292	0.17614			
272 ->290	-0.18948			
272 ->291	-0.15776			
272 ->292	0.14432			
273 ->290	0.22149			
273 ->291	0.19995			
273 ->292	-0.18350			
283 ->300	-0.10064			
283 ->301	0.10245			
Excited State 183:	Singlet-A	3.7345 eV	331.99 nm	f=0.0049
271 ->294	0.12477			
280 ->300	0.14530			
280 ->310	-0.11146			

281 ->304	0.12683			
281 ->310	-0.14749			
283 ->306	-0.12753			
285 ->304	0.17799			
285 ->305	-0.15313			
285 ->310	0.31088			
Excited State 184:	Singlet-A	3.7416 eV	331.36 nm	f=0.0004
270 ->293	-0.27984			
271 ->293	0.15722			
272 ->293	-0.31777			
273 ->293	0.36976			
283 ->303	0.10658			
283 ->305	-0.10149			
Excited State 185:	Singlet-A	3.7453 eV	331.04 nm	f=0.0010
265 ->294	0.13179			
269 ->294	0.10442			
270 ->294	0.11443			
271 ->294	0.47555			
274 ->294	0.25648			
275 ->294	-0.11216			
276 ->294	-0.11022			
Excited State 186:	Singlet-A	3.7488 eV	330.73 nm	f=0.0008
270 ->293	-0.12368			
271 ->294	-0.14433			
272 ->293	-0.13865			
273 ->293	0.15524			
277 ->298	0.10438			
277 ->301	0.11659			
283 ->302	-0.16512			
283 ->303	-0.18830			
283 ->304	0.12161			
283 ->305	0.21794			
284 ->300	-0.12128			
284 ->306	-0.12883			
Excited State 187:	Singlet-A	3.7522 eV	330.43 nm	f=0.0007
269 ->289	0.20629			
269 ->290	0.20072			
269 ->292	0.35357			
269 ->293	-0.18995			
270 ->292	0.13485			

271 ->289	0.10581			
271 ->290	0.10427			
271 ->292	0.23839			
271 ->293	-0.13216			
Excited State 188:	Singlet-A	3.7614 eV	329.62 nm	f=0.0017
274 ->296	0.10839			
276 ->296	0.34992			
277 ->296	0.45738			
279 ->296	-0.12779			
Excited State 189:	Singlet-A	3.7648 eV	329.33 nm	f=0.0003
276 ->296	0.18443			
277 ->295	-0.12965			
277 ->296	0.23724			
277 ->298	-0.10346			
277 ->301	-0.13021			
283 ->301	-0.10257			
283 ->303	-0.12220			
283 ->306	-0.14548			
284 ->300	-0.12027			
284 ->304	0.10462			
284 ->306	-0.19063			
Excited State 190:	Singlet-A	3.7657 eV	329.25 nm	f=0.0005
268 ->286	0.24511			
268 ->287	0.38336			
268 ->288	-0.15452			
268 ->289	-0.12103			
268 ->290	0.17325			
268 ->291	-0.15564			
268 ->292	0.18039			
268 ->293	0.13958			
269 ->292	0.11262			
271 ->291	-0.11799			
Excited State 191:	Singlet-A	3.7686 eV	328.99 nm	f=0.0004
268 ->286	0.10090			
268 ->287	0.13055			
269 ->289	0.13229			
269 ->291	-0.14273			
269 ->292	-0.10942			
271 ->289	-0.20562			
271 ->290	-0.15598			

271 ->291	0.31326			
271 ->292	0.22324			
271 ->293	0.19638			
280 ->297	-0.11427			
281 ->297	-0.13341			
Excited State 192:	Singlet-A	3.7688 eV	328.98 nm	f=0.0002
280 ->297	0.42990			
281 ->297	0.49872			
Excited State 193:	Singlet-A	3.7782 eV	328.16 nm	f=0.0016
271 ->291	-0.10138			
275 ->300	-0.13990			
276 ->300	-0.17823			
280 ->302	0.21935			
281 ->300	-0.12683			
281 ->302	-0.21636			
282 ->302	0.16785			
283 ->302	0.10814			
283 ->306	0.15107			
Excited State 194:	Singlet-A	3.7835 eV	327.69 nm	f=0.0004
272 ->297	0.12076			
273 ->297	-0.15510			
275 ->295	-0.11643			
276 ->295	0.33027			
276 ->297	0.14003			
277 ->295	0.42443			
Excited State 195:	Singlet-A	3.7844 eV	327.62 nm	f=0.0000
278 ->295	0.70341			
Excited State 196:	Singlet-A	3.7863 eV	327.45 nm	f=0.0000
269 ->286	0.14948			
269 ->287	-0.14114			
269 ->288	0.25551			
269 ->290	0.22930			
269 ->291	-0.24564			
269 ->293	0.20031			
271 ->288	0.13113			
271 ->290	0.12099			
271 ->293	0.16467			
Excited State 197:	Singlet-A	3.7884 eV	327.27 nm	f=0.0013

270 ->297	-0.13322
272 ->297	-0.22320
273 ->297	0.28994
275 ->297	0.16910
276 ->295	0.14953
276 ->297	-0.25668
277 ->295	0.24334
280 ->297	-0.14497
282 ->312	-0.10205

Excited State 198:	Singlet-A	3.7925 eV	326.92 nm	f=0.0056
274 ->298	-0.15051			
274 ->299	-0.13101			
274 ->300	0.11403			
274 ->302	0.11770			
274 ->305	0.11533			
280 ->299	0.10944			
280 ->305	-0.10979			
281 ->298	0.22167			
281 ->299	0.16992			
281 ->300	-0.12126			
281 ->302	-0.10059			
285 ->300	0.12092			
285 ->305	0.12182			
285 ->310	0.10276			

Excited State 199:	Singlet-A	3.7969 eV	326.54 nm	f=0.0001
274 ->296	0.12229			
275 ->296	0.13785			
276 ->296	0.32988			
277 ->296	-0.12844			
279 ->296	0.54550			

Excited State 200:	Singlet-A	3.8053 eV	325.82 nm	f=0.0058
277 ->303	0.11073			
282 ->303	0.15936			
282 ->311	-0.16320			
282 ->312	0.19225			
283 ->303	0.17833			
283 ->312	-0.10413			
284 ->300	-0.10878			
284 ->306	-0.11851			
284 ->312	-0.13650			

Excited State 201:	Singlet-A	3.8073 eV	325.65 nm	f=0.0074
276 ->297	-0.10023			
282 ->302	0.10082			
282 ->311	-0.15130			
282 ->312	0.19411			
283 ->300	0.11154			
283 ->303	-0.15378			
284 ->303	0.10919			
284 ->306	0.13156			
284 ->311	0.12435			
284 ->312	-0.14879			
Excited State 202:	Singlet-A	3.8126 eV	325.20 nm	f=0.0115
268 ->293	0.14546			
276 ->299	0.10872			
276 ->301	0.10017			
281 ->299	0.11432			
281 ->302	-0.13070			
283 ->300	0.16710			
283 ->307	0.19043			
Excited State 203:	Singlet-A	3.8250 eV	324.14 nm	f=0.0019
268 ->293	0.24084			
275 ->294	-0.18581			
276 ->303	0.10387			
277 ->299	0.12408			
283 ->303	-0.12257			
Excited State 204:	Singlet-A	3.8274 eV	323.94 nm	f=0.0008
272 ->294	-0.20731			
273 ->294	-0.16295			
274 ->294	0.14410			
275 ->294	0.48301			
276 ->294	-0.21411			
277 ->294	0.17678			
Excited State 205:	Singlet-A	3.8305 eV	323.67 nm	f=0.0005
274 ->296	-0.11733			
275 ->296	-0.20095			
276 ->296	-0.29448			
277 ->296	0.33846			
279 ->296	0.36534			
Excited State 206:	Singlet-A	3.8321 eV	323.54 nm	f=0.0016

268 ->289	0.12279			
268 ->293	0.42141			
280 ->304	-0.12054			
Excited State 207:	Singlet-A	3.8355 eV	323.26 nm	f=0.0026
268 ->293	0.24262			
276 ->296	-0.12369			
277 ->296	0.12416			
279 ->296	0.10905			
280 ->310	-0.11506			
281 ->310	-0.11005			
283 ->307	-0.11323			
285 ->309	-0.15131			
285 ->310	-0.12987			
285 ->311	-0.14407			
285 ->312	-0.10299			
285 ->313	-0.14700			
Excited State 208:	Singlet-A	3.8438 eV	322.56 nm	f=0.0035
269 ->289	-0.19747			
269 ->290	-0.11934			
269 ->291	0.22493			
269 ->292	0.12763			
269 ->293	0.16271			
271 ->291	0.10111			
277 ->298	-0.12466			
Excited State 209:	Singlet-A	3.8460 eV	322.37 nm	f=0.0000
268 ->290	-0.15850			
269 ->289	0.10480			
269 ->291	-0.17982			
269 ->292	-0.10681			
280 ->299	-0.10084			
282 ->298	-0.22127			
282 ->299	0.22536			
282 ->301	0.13800			
282 ->314	-0.10344			
Excited State 210:	Singlet-A	3.8472 eV	322.27 nm	f=0.0021
268 ->290	0.14117			
268 ->292	-0.11195			
269 ->289	-0.11674			
269 ->291	0.17722			
269 ->292	0.10428			

269 ->293	0.10809			
282 ->298	-0.22620			
282 ->299	0.24113			
282 ->301	0.16996			
282 ->314	-0.10045			
Excited State 211:	Singlet-A	3.8475 eV	322.24 nm	f=0.0014
268 ->288	-0.14291			
268 ->289	-0.14462			
268 ->290	0.34426			
268 ->291	0.28821			
268 ->292	-0.18472			
269 ->290	0.12874			
269 ->292	-0.16448			
Excited State 212:	Singlet-A	3.8521 eV	321.87 nm	f=0.0074
278 ->298	0.13077			
278 ->299	0.10543			
278 ->309	0.10468			
278 ->310	0.19299			
280 ->304	-0.13063			
281 ->309	0.10088			
281 ->310	0.10862			
285 ->298	-0.15766			
285 ->299	0.10570			
285 ->304	-0.12439			
285 ->310	0.11334			
285 ->311	-0.12011			
285 ->313	0.17075			
285 ->314	0.11249			
Excited State 213:	Singlet-A	3.8565 eV	321.50 nm	f=0.0039
268 ->290	-0.13052			
268 ->291	-0.11252			
268 ->292	0.11042			
270 ->295	-0.11292			
272 ->295	0.18705			
275 ->295	0.35286			
276 ->295	0.25472			
Excited State 214:	Singlet-A	3.8585 eV	321.33 nm	f=0.0059
272 ->295	0.15147			
275 ->295	0.26211			
276 ->295	0.20493			

277 ->298	0.10214			
281 ->304	-0.10081			
283 ->307	-0.13438			
283 ->308	-0.10223			
Excited State 215:	Singlet-A	3.8616 eV	321.07 nm	f=0.0007
269 ->294	0.11708			
272 ->294	0.10734			
273 ->294	0.17768			
275 ->294	0.12573			
275 ->295	-0.18122			
276 ->295	-0.12274			
276 ->297	0.21585			
277 ->297	0.29307			
Excited State 216:	Singlet-A	3.8624 eV	321.00 nm	f=0.0001
278 ->297	0.69165			
Excited State 217:	Singlet-A	3.8638 eV	320.89 nm	f=0.0006
269 ->294	0.23203			
270 ->294	0.13173			
272 ->294	0.20108			
273 ->294	0.32877			
275 ->294	0.19597			
276 ->297	-0.18367			
277 ->297	-0.25033			
Excited State 218:	Singlet-A	3.8661 eV	320.70 nm	f=0.0002
273 ->294	0.11569			
276 ->297	0.21942			
276 ->299	-0.11446			
277 ->297	0.28446			
280 ->305	-0.11003			
283 ->302	-0.10618			
283 ->303	0.10325			
285 ->299	0.12372			
Excited State 219:	Singlet-A	3.8737 eV	320.07 nm	f=0.0058
268 ->293	0.10218			
277 ->304	-0.12159			
277 ->307	0.11474			
280 ->304	0.16322			
280 ->305	-0.11319			
282 ->304	0.10693			

283 ->304	0.14699			
283 ->306	-0.11591			
283 ->307	0.12914			
285 ->300	0.10734			
Excited State 220:	Singlet-A	3.8805 eV	319.51 nm	f=0.0059
274 ->300	-0.10154			
275 ->300	-0.14105			
280 ->300	0.11946			
280 ->304	0.19433			
280 ->308	0.10632			
281 ->308	-0.13113			
283 ->306	0.21806			
285 ->300	0.10483			
Excited State 221:	Singlet-A	3.8839 eV	319.22 nm	f=0.0017
271 ->296	0.18489			
274 ->296	0.10314			
276 ->305	0.11590			
277 ->300	-0.10681			
278 ->310	-0.15641			
285 ->298	-0.24529			
285 ->299	0.25666			
285 ->301	-0.11052			
285 ->304	-0.11678			
Excited State 222:	Singlet-A	3.8885 eV	318.85 nm	f=0.0023
271 ->296	0.38966			
274 ->296	0.21122			
285 ->299	-0.10521			
285 ->300	-0.14968			
285 ->302	0.10879			
Excited State 223:	Singlet-A	3.8956 eV	318.26 nm	f=0.0039
279 ->298	-0.16471			
279 ->299	0.17253			
279 ->301	0.15859			
279 ->314	-0.11254			
279 ->315	0.12499			
284 ->311	-0.28162			
284 ->312	0.29139			
284 ->316	0.12911			
Excited State 224:	Singlet-A	3.9008 eV	317.85 nm	f=0.0006

271 ->296	0.17849
279 ->298	-0.12796
279 ->299	0.13124
279 ->301	0.14111
279 ->314	-0.10669
279 ->315	0.10542
280 ->302	-0.12302
281 ->298	-0.10317
283 ->302	-0.11993
284 ->298	-0.10409
285 ->298	0.14277
285 ->300	0.11359

Excited State 225: Singlet-A 3.9013 eV 317.81 nm f=0.0038

279 ->298	-0.16462
279 ->299	0.16455
279 ->301	0.12344
279 ->314	-0.13386
279 ->315	0.11388
282 ->311	0.10034
282 ->312	-0.10981
284 ->311	0.20965
284 ->312	-0.18154
284 ->314	0.11029
284 ->316	-0.14199
285 ->298	-0.10385

Excited State 226: Singlet-A 3.9083 eV 317.23 nm f=0.0190

276 ->300	-0.12725
277 ->303	-0.14384
277 ->305	-0.12133
280 ->298	0.10460
280 ->307	-0.14247
283 ->300	0.10369
283 ->306	-0.13458
283 ->307	0.14647
283 ->308	0.12177
285 ->298	0.12486
285 ->300	0.12893

Excited State 227: Singlet-A 3.9136 eV 316.81 nm f=0.0087

274 ->300	-0.10987
274 ->302	-0.14328
276 ->308	-0.11784

277 ->300	-0.12976			
280 ->298	0.14529			
280 ->300	0.12758			
280 ->302	0.17727			
280 ->305	0.11360			
281 ->299	0.13479			
281 ->300	0.10444			
283 ->305	0.10159			
Excited State 228:	Singlet-A	3.9176 eV	316.48 nm	f=0.0019
276 ->298	-0.20251			
277 ->298	-0.13197			
277 ->300	0.10272			
277 ->304	-0.10566			
277 ->305	-0.12754			
280 ->308	0.13174			
283 ->308	0.11389			
285 ->298	-0.18530			
285 ->299	0.24987			
Excited State 229:	Singlet-A	3.9290 eV	315.56 nm	f=0.0030
276 ->300	0.12987			
280 ->313	0.16528			
281 ->313	0.18435			
285 ->300	0.14320			
285 ->302	-0.14627			
285 ->304	-0.11136			
285 ->310	-0.12079			
285 ->313	0.22154			
Excited State 230:	Singlet-A	3.9320 eV	315.32 nm	f=0.0091
280 ->313	-0.16059			
281 ->304	-0.10526			
281 ->313	-0.18155			
285 ->298	0.10407			
285 ->300	0.26039			
285 ->302	-0.13531			
285 ->304	-0.15991			
285 ->306	-0.10292			
285 ->311	-0.12279			
285 ->313	-0.24759			
Excited State 231:	Singlet-A	3.9386 eV	314.79 nm	f=0.0008
270 ->297	-0.14792			

272 ->297	0.24303			
275 ->297	0.46266			
276 ->297	0.31868			
Excited State 232:	Singlet-A	3.9446 eV	314.31 nm	f=0.0008
266 ->295	0.13125			
268 ->295	0.20065			
270 ->295	0.32050			
272 ->295	-0.17865			
275 ->295	0.19273			
284 ->298	0.22832			
284 ->299	0.10288			
284 ->301	0.13656			
284 ->305	0.11519			
Excited State 233:	Singlet-A	3.9471 eV	314.11 nm	f=0.0003
272 ->296	-0.19058			
273 ->296	-0.13366			
274 ->296	0.13921			
275 ->296	0.52653			
276 ->296	-0.22433			
277 ->296	0.17567			
Excited State 234:	Singlet-A	3.9490 eV	313.97 nm	f=0.0011
278 ->310	-0.12271			
278 ->313	0.18172			
280 ->311	-0.12305			
281 ->311	-0.14408			
281 ->312	-0.11081			
284 ->298	-0.14675			
284 ->301	-0.13831			
285 ->299	-0.10628			
285 ->305	-0.12411			
285 ->311	-0.10403			
285 ->313	0.14991			
Excited State 235:	Singlet-A	3.9501 eV	313.88 nm	f=0.0012
268 ->295	-0.13838			
270 ->295	-0.23438			
272 ->295	0.14909			
275 ->295	-0.15024			
284 ->298	0.28193			
284 ->301	0.24723			
284 ->303	-0.12796			

284 ->306	-0.12434			
Excited State 236:	Singlet-A	3.9634 eV	312.82 nm	f=0.0014
276 ->298	-0.10864			
279 ->298	0.10014			
279 ->299	-0.13272			
279 ->303	0.14647			
279 ->311	-0.12553			
279 ->312	0.13396			
282 ->298	0.12158			
282 ->299	-0.12475			
284 ->298	0.11703			
284 ->315	-0.10390			
Excited State 237:	Singlet-A	3.9681 eV	312.46 nm	f=0.0232
275 ->297	0.11964			
276 ->302	0.18237			
277 ->298	0.17987			
277 ->299	0.10252			
277 ->305	0.12626			
283 ->299	0.12109			
283 ->302	0.11290			
283 ->308	0.10920			
Excited State 238:	Singlet-A	3.9709 eV	312.23 nm	f=0.0086
279 ->311	-0.11071			
279 ->312	0.11829			
280 ->309	-0.10445			
280 ->310	0.12243			
282 ->298	0.10628			
283 ->299	0.12153			
Excited State 239:	Singlet-A	3.9749 eV	311.92 nm	f=0.0106
275 ->300	-0.10924			
275 ->301	0.11127			
275 ->303	0.12512			
276 ->301	-0.13203			
276 ->303	-0.15897			
277 ->300	-0.14288			
277 ->301	0.10674			
277 ->303	0.12803			
279 ->311	-0.11530			
279 ->312	0.12378			
284 ->299	0.16889			

Excited State 240:	Singlet-A	3.9811 eV	311.44 nm	f=0.0025
271 ->296	0.16388			
272 ->296	-0.10116			
273 ->296	-0.16891			
278 ->298	0.33747			
278 ->299	0.27084			
285 ->305	0.13060			
285 ->313	-0.14994			
Excited State 241:	Singlet-A	3.9831 eV	311.28 nm	f=0.0043
270 ->295	0.10614			
272 ->295	-0.10210			
282 ->315	0.11954			
282 ->316	-0.17957			
284 ->299	-0.24791			
284 ->301	0.28034			
284 ->303	-0.25651			
284 ->305	-0.17373			
284 ->315	0.15023			
284 ->316	-0.13944			
Excited State 242:	Singlet-A	3.9875 eV	310.93 nm	f=0.0008
274 ->304	-0.13126			
274 ->305	0.12157			
277 ->302	-0.12397			
281 ->304	0.16089			
281 ->305	-0.14066			
281 ->310	0.10451			
283 ->298	-0.11593			
283 ->299	-0.11674			
283 ->305	0.11104			
Excited State 243:	Singlet-A	3.9925 eV	310.54 nm	f=0.0016
269 ->296	0.25615			
270 ->296	0.16671			
272 ->296	0.24632			
273 ->296	0.38957			
275 ->296	0.19782			
278 ->298	0.12829			
278 ->299	0.10745			
285 ->313	-0.11358			
Excited State 244:	Singlet-A	3.9981 eV	310.11 nm	f=0.0014

266 ->295	0.12470
272 ->295	0.13767
274 ->295	-0.14285
279 ->298	0.15836
279 ->299	-0.15385
279 ->316	0.12379
282 ->298	-0.15397
282 ->299	0.11960
282 ->300	0.15698
282 ->301	-0.11754
282 ->304	-0.11282
282 ->306	0.14166
282 ->312	0.10986
282 ->314	0.20216
282 ->316	-0.11654
284 ->314	0.10208

Excited State 245:	Singlet-A	4.0030 eV	309.73 nm	f=0.0089
269 ->294	0.26293			
271 ->294	-0.11118			
272 ->294	-0.16849			
273 ->296	0.10352			
274 ->298	-0.11718			
276 ->300	0.11184			
277 ->302	-0.10023			
277 ->307	-0.10214			
285 ->308	0.11609			

Excited State 246:	Singlet-A	4.0052 eV	309.56 nm	f=0.0066
269 ->294	0.34485			
271 ->294	-0.10658			
272 ->294	-0.15551			
273 ->294	-0.10249			
276 ->302	0.10328			
277 ->302	0.10011			
278 ->298	-0.10577			
285 ->308	-0.10094			

Excited State 247:	Singlet-A	4.0087 eV	309.29 nm	f=0.0007
270 ->295	-0.26826			
272 ->295	-0.18875			
273 ->295	-0.21819			
274 ->295	0.51519			

Excited State 248:	Singlet-A	4.0089 eV	309.27 nm	f=0.0049
265 ->294	0.10115			
274 ->298	-0.11484			
278 ->305	0.10463			
278 ->309	0.13767			
278 ->310	0.10253			
278 ->311	0.17320			
278 ->312	0.14041			
278 ->314	-0.15351			
278 ->315	-0.13063			
285 ->313	0.17626			
Excited State 249:	Singlet-A	4.0123 eV	309.01 nm	f=0.0040
269 ->294	0.28327			
272 ->294	-0.14647			
276 ->300	-0.10303			
276 ->303	-0.10978			
276 ->304	0.12059			
278 ->311	0.12170			
278 ->314	-0.11379			
Excited State 250:	Singlet-A	4.0141 eV	308.87 nm	f=0.0016
269 ->294	-0.13543			
274 ->299	0.11692			
276 ->300	0.12564			
276 ->304	-0.10939			
278 ->299	-0.10154			
278 ->311	0.15736			
278 ->312	0.12382			
278 ->314	-0.12916			
278 ->315	-0.10947			
280 ->298	0.10021			
281 ->313	0.10874			
Excited State 251:	Singlet-A	4.0150 eV	308.80 nm	f=0.0028
265 ->287	-0.11189			
281 ->305	-0.10705			
283 ->298	0.15455			
283 ->299	0.15774			
283 ->300	-0.13797			
283 ->304	-0.14765			
283 ->305	-0.13590			
Excited State 252:	Singlet-A	4.0188 eV	308.51 nm	f=0.0027

263 ->286	0.10597
267 ->286	-0.15779
267 ->287	0.11935
270 ->297	-0.10767
282 ->301	0.11131
282 ->316	-0.12605
284 ->299	0.19131
284 ->315	0.10382
285 ->301	-0.11321

Excited State 253:	Singlet-A	4.0205 eV	308.38 nm	f=0.0042
266 ->295	-0.10122			
267 ->286	0.16501			
267 ->287	-0.12945			
270 ->297	-0.14121			
282 ->315	0.10563			
282 ->316	-0.15490			
284 ->301	-0.12401			
285 ->301	0.12729			

Excited State 254:	Singlet-A	4.0260 eV	307.96 nm	f=0.0118
280 ->298	0.15972			
280 ->299	-0.16442			
280 ->301	-0.12985			
280 ->303	0.10189			
281 ->298	-0.13549			
281 ->299	0.13695			
281 ->301	0.12756			
283 ->299	-0.10271			
285 ->301	0.22939			

Excited State 255:	Singlet-A	4.0307 eV	307.60 nm	f=0.0001
269 ->294	0.13049			
270 ->294	-0.28166			
272 ->294	0.48520			
273 ->294	-0.33405			
275 ->294	0.10512			

Excited State 256:	Singlet-A	4.0370 eV	307.12 nm	f=0.0006
266 ->295	-0.13616			
268 ->297	0.18665			
270 ->297	0.33432			
272 ->297	-0.20767			
273 ->297	-0.10669			

275 ->297	0.19437			
284 ->299	0.12070			
284 ->301	-0.11083			
284 ->316	-0.17768			
Excited State 257:	Singlet-A	4.0424 eV	306.71 nm	f=0.0018
270 ->297	0.13126			
276 ->298	0.15617			
280 ->299	0.10539			
281 ->299	-0.10628			
282 ->299	0.10268			
285 ->299	0.15230			
285 ->301	0.18245			
285 ->304	0.10981			
285 ->305	0.13747			
285 ->306	0.14831			
285 ->308	0.14952			
Excited State 258:	Singlet-A	4.0454 eV	306.48 nm	f=0.0009
280 ->301	-0.10888			
281 ->300	0.10011			
281 ->301	0.11061			
282 ->298	0.28643			
282 ->299	0.15502			
282 ->300	0.23903			
282 ->301	0.27205			
283 ->300	-0.10354			
Excited State 259:	Singlet-A	4.0484 eV	306.26 nm	f=0.0001
270 ->295	0.25618			
272 ->295	0.29078			
273 ->295	0.35776			
274 ->295	0.40391			
275 ->295	-0.10709			
Excited State 260:	Singlet-A	4.0523 eV	305.96 nm	f=0.0075
265 ->286	0.13653			
265 ->287	0.17928			
279 ->301	0.10139			
282 ->301	-0.12116			
284 ->314	-0.13673			
284 ->315	0.12142			
285 ->301	0.18138			

Excited State 261:	Singlet-A	4.0542 eV	305.82 nm	f=0.0074
257 ->287	0.10628			
265 ->286	0.14804			
265 ->287	0.20587			
281 ->300	0.10809			
285 ->302	-0.10058			
Excited State 262:	Singlet-A	4.0585 eV	305.49 nm	f=0.0057
276 ->307	0.10389			
276 ->309	0.12197			
284 ->314	0.10422			
285 ->299	0.11621			
285 ->301	0.28131			
285 ->303	0.12475			
285 ->309	-0.10358			
Excited State 263:	Singlet-A	4.0627 eV	305.18 nm	f=0.0038
267 ->286	0.14106			
267 ->287	-0.10526			
276 ->298	-0.11036			
276 ->307	0.12927			
277 ->307	-0.12172			
279 ->306	-0.12040			
282 ->298	0.11578			
283 ->304	-0.10163			
Excited State 264:	Singlet-A	4.0681 eV	304.77 nm	f=0.0002
270 ->294	0.53128			
271 ->294	-0.16375			
272 ->294	0.15656			
273 ->294	-0.28420			
Excited State 265:	Singlet-A	4.0696 eV	304.66 nm	f=0.0075
284 ->298	-0.16736			
284 ->299	-0.12177			
284 ->300	0.28566			
284 ->303	0.19524			
284 ->305	0.11586			
284 ->306	-0.11345			
284 ->307	0.11040			
285 ->301	0.20238			
285 ->305	-0.13726			
Excited State 266:	Singlet-A	4.0716 eV	304.51 nm	f=0.0049

270 ->294	-0.12608			
278 ->298	0.12315			
278 ->313	-0.17626			
284 ->300	-0.15346			
284 ->303	-0.12346			
285 ->301	0.22557			
285 ->305	-0.22311			
Excited State 267:	Singlet-A	4.0738 eV	304.35 nm	f=0.0070
265 ->294	-0.10526			
270 ->294	0.13001			
278 ->313	-0.17217			
285 ->301	-0.10847			
285 ->302	0.11445			
285 ->303	0.15829			
285 ->308	0.24720			
285 ->309	-0.10479			
Excited State 268:	Singlet-A	4.0782 eV	304.02 nm	f=0.0039
266 ->295	0.10638			
274 ->297	0.12519			
277 ->300	0.10514			
282 ->299	-0.12127			
284 ->300	-0.11643			
284 ->316	0.14804			
285 ->301	-0.10120			
Excited State 269:	Singlet-A	4.0807 eV	303.83 nm	f=0.0245
265 ->294	0.11403			
277 ->300	0.11396			
281 ->298	-0.11262			
281 ->310	0.12771			
281 ->313	0.11868			
283 ->309	-0.11424			
285 ->301	-0.12784			
285 ->303	0.22019			
285 ->308	0.11710			
285 ->310	0.12036			
285 ->313	-0.13221			
Excited State 270:	Singlet-A	4.0834 eV	303.63 nm	f=0.0025
265 ->296	0.10071			
272 ->297	-0.11034			
274 ->297	0.15497			

277 ->300	-0.12283			
278 ->310	-0.10110			
283 ->300	-0.12958			
283 ->307	0.10405			
284 ->316	0.13548			
Excited State 271:	Singlet-A	4.0855 eV	303.47 nm	f=0.0042
265 ->296	-0.11365			
277 ->299	-0.10020			
278 ->298	-0.11010			
278 ->310	0.14576			
281 ->304	-0.11768			
283 ->304	-0.13027			
283 ->309	-0.14126			
Excited State 272:	Singlet-A	4.0878 eV	303.30 nm	f=0.0015
270 ->297	-0.26238			
272 ->297	-0.13714			
273 ->297	-0.20672			
274 ->297	0.46479			
282 ->300	-0.10169			
Excited State 273:	Singlet-A	4.0913 eV	303.04 nm	f=0.0014
266 ->295	0.30799			
267 ->295	0.14000			
268 ->295	0.31902			
270 ->295	-0.14860			
274 ->297	-0.13881			
275 ->295	-0.11599			
282 ->300	-0.16791			
282 ->301	0.12341			
282 ->303	0.10160			
Excited State 274:	Singlet-A	4.0962 eV	302.68 nm	f=0.0053
265 ->294	-0.11119			
265 ->296	0.11132			
271 ->296	-0.10171			
276 ->299	-0.12787			
277 ->299	-0.11713			
277 ->300	0.10495			
278 ->310	-0.10019			
281 ->298	0.10550			
281 ->313	-0.10382			
285 ->302	-0.12838			

285 ->305 0.14185
285 ->313 0.10308
285 ->314 0.10309

Excited State 275: Singlet-A 4.0972 eV 302.61 nm f=0.0035
261 ->286 0.14109
261 ->288 -0.13932
263 ->286 0.13863
263 ->288 -0.11579
280 ->301 0.10801
283 ->302 -0.10757
284 ->316 0.10938
285 ->303 0.15097

Excited State 276: Singlet-A 4.1020 eV 302.25 nm f=0.0008
266 ->295 0.10496
266 ->297 0.13108
270 ->297 -0.10079
274 ->297 0.13266
279 ->312 0.14322
279 ->314 0.12403
279 ->315 -0.11274
281 ->298 0.10580
284 ->300 0.16049
284 ->302 0.16516
284 ->305 -0.10679
284 ->306 -0.11744
284 ->316 -0.12196
285 ->303 0.14929

Excited State 277: Singlet-A 4.1033 eV 302.15 nm f=0.0004
265 ->294 0.23703
280 ->298 0.17068
280 ->299 -0.16479
281 ->298 0.20444
281 ->299 -0.19165
281 ->313 -0.13328

Excited State 278: Singlet-A 4.1071 eV 301.87 nm f=0.0009
260 ->288 -0.14503
260 ->291 -0.12866
260 ->292 0.11596
262 ->287 0.10024
262 ->288 0.19917

262 ->289	0.11863			
262 ->291	0.14869			
262 ->292	-0.11917			
283 ->302	0.14789			
283 ->305	0.11585			
285 ->303	0.16434			
285 ->308	-0.10906			
Excited State 279:	Singlet-A	4.1098 eV	301.68 nm	f=0.0034
265 ->294	-0.20775			
285 ->303	0.35409			
285 ->305	0.11496			
285 ->308	-0.18255			
Excited State 280:	Singlet-A	4.1154 eV	301.27 nm	f=0.0144
269 ->296	-0.10009			
272 ->299	0.11497			
273 ->298	0.15094			
273 ->299	-0.10998			
279 ->316	-0.10829			
280 ->300	0.10453			
281 ->300	0.20028			
282 ->303	-0.12404			
285 ->303	-0.19937			
285 ->308	0.11274			
Excited State 281:	Singlet-A	4.1166 eV	301.18 nm	f=0.0015
265 ->294	0.11235			
273 ->299	0.13756			
274 ->302	0.12042			
278 ->300	0.17132			
278 ->302	0.10775			
280 ->300	0.21899			
281 ->300	0.19274			
282 ->300	-0.10634			
Excited State 282:	Singlet-A	4.1186 eV	301.03 nm	f=0.0006
266 ->297	-0.11665			
268 ->295	-0.11839			
279 ->300	-0.16451			
279 ->301	-0.14500			
279 ->305	0.12109			
279 ->306	-0.12097			
279 ->316	0.13696			

281 ->299	-0.11406			
282 ->298	-0.14014			
282 ->299	-0.22401			
282 ->301	0.23709			
284 ->302	0.10828			
Excited State 283:	Singlet-A	4.1223 eV	300.76 nm	f=0.0003
265 ->294	0.13318			
276 ->298	-0.14341			
276 ->299	0.14319			
277 ->299	0.18820			
278 ->300	0.10963			
280 ->299	0.16498			
280 ->301	0.12191			
281 ->298	-0.13364			
281 ->299	0.17648			
281 ->301	-0.18703			
281 ->313	-0.10316			
282 ->301	0.11692			
Excited State 284:	Singlet-A	4.1243 eV	300.62 nm	f=0.0006
265 ->294	0.17063			
273 ->299	-0.10776			
276 ->298	0.12834			
276 ->299	-0.10435			
277 ->298	0.10859			
277 ->299	-0.16827			
280 ->298	-0.13482			
280 ->299	0.18285			
280 ->301	-0.16194			
281 ->298	-0.11267			
281 ->299	0.15089			
284 ->302	0.13348			
Excited State 285:	Singlet-A	4.1267 eV	300.45 nm	f=0.0001
270 ->297	0.20314			
272 ->297	0.26584			
273 ->297	0.32044			
274 ->297	0.36643			
275 ->297	-0.10846			
Excited State 286:	Singlet-A	4.1281 eV	300.34 nm	f=0.0008
266 ->295	-0.14153			
268 ->295	0.18094			

270 ->297	-0.14191
272 ->297	-0.11141
273 ->297	-0.15205
274 ->297	-0.16236
275 ->298	-0.13772
282 ->300	0.10605
283 ->302	0.18046
284 ->302	0.11029
284 ->305	-0.10802

Excited State 287: Singlet-A 4.1292 eV 300.26 nm f=0.0010

266 ->295	-0.19374
267 ->295	0.12270
268 ->295	0.15056
275 ->298	0.12776
276 ->299	0.10161
283 ->302	-0.12445
283 ->305	-0.10031
284 ->302	0.19636
284 ->305	-0.12188
284 ->315	-0.13850
284 ->316	0.11651

Excited State 288: Singlet-A 4.1346 eV 299.87 nm f=0.0027

269 ->296	0.45098
272 ->296	-0.29046
278 ->300	-0.20102
281 ->300	0.10157

Excited State 289: Singlet-A 4.1359 eV 299.78 nm f=0.0029

266 ->297	-0.14609
269 ->296	0.14045
270 ->297	0.12956
282 ->299	0.18573
282 ->301	-0.17157
284 ->302	0.18117
284 ->305	-0.11155
284 ->316	0.20682

Excited State 290: Singlet-A 4.1412 eV 299.39 nm f=0.0005

269 ->296	0.14320
272 ->296	-0.17059
278 ->300	0.38617
278 ->302	0.22687

278 ->305	0.10440			
280 ->299	-0.10119			
Excited State 291:	Singlet-A	4.1431 eV	299.26 nm	f=0.0056
266 ->295	-0.18894			
267 ->297	-0.12512			
268 ->295	0.30990			
269 ->295	0.10491			
278 ->300	0.10139			
279 ->298	-0.21255			
279 ->300	-0.24276			
279 ->301	-0.14687			
Excited State 292:	Singlet-A	4.1469 eV	298.98 nm	f=0.0004
269 ->296	0.11712			
270 ->296	-0.19491			
272 ->296	0.33641			
273 ->296	-0.24112			
280 ->303	0.10479			
282 ->303	0.17784			
Excited State 293:	Singlet-A	4.1495 eV	298.79 nm	f=0.0004
269 ->296	0.22344			
270 ->296	-0.18989			
272 ->296	0.27500			
273 ->296	-0.24964			
275 ->298	0.10258			
278 ->300	0.12409			
282 ->303	-0.22622			
Excited State 294:	Singlet-A	4.1526 eV	298.57 nm	f=0.0004
269 ->296	0.11014			
279 ->298	0.20203			
279 ->299	0.11344			
279 ->300	0.11316			
279 ->301	0.17016			
280 ->303	-0.12108			
281 ->303	0.11325			
282 ->303	0.12146			
Excited State 295:	Singlet-A	4.1544 eV	298.44 nm	f=0.0050
280 ->303	-0.18573			
281 ->303	0.18126			
282 ->298	-0.12575			

282 ->300	0.18427			
282 ->303	0.23138			
282 ->306	0.17094			
283 ->303	-0.12741			
Excited State 296:	Singlet-A	4.1586 eV	298.14 nm	f=0.0022
266 ->297	-0.10519			
267 ->295	-0.11301			
268 ->295	0.12479			
273 ->299	-0.10798			
277 ->305	0.10194			
279 ->298	0.18617			
279 ->299	0.12797			
279 ->316	0.13183			
280 ->300	0.10055			
282 ->303	-0.10497			
283 ->302	0.12221			
Excited State 297:	Singlet-A	4.1608 eV	297.98 nm	f=0.0032
265 ->294	0.14809			
270 ->298	0.13303			
275 ->298	0.19429			
275 ->299	-0.16316			
275 ->301	0.14653			
278 ->313	-0.15602			
281 ->304	-0.12359			
282 ->303	0.14197			
283 ->304	-0.12193			
285 ->308	-0.11034			
Excited State 298:	Singlet-A	4.1632 eV	297.81 nm	f=0.0045
265 ->294	-0.12482			
265 ->296	0.10987			
269 ->295	-0.12146			
270 ->295	0.13071			
271 ->295	0.47337			
278 ->313	0.16234			
Excited State 299:	Singlet-A	4.1648 eV	297.70 nm	f=0.0075
265 ->294	0.14462			
265 ->296	-0.13259			
270 ->295	0.10904			
271 ->295	0.40671			
278 ->313	-0.19256			

Excited State 300:	Singlet-A	4.1680 eV	297.47 nm	f=0.0013
266 ->286	-0.13980			
266 ->287	0.10374			
266 ->295	0.10660			
267 ->289	0.16830			
267 ->291	-0.11484			
267 ->295	-0.10288			
267 ->297	0.17407			
268 ->297	0.13416			
271 ->295	0.17684			
279 ->298	-0.12295			
279 ->299	-0.13603			
279 ->300	0.10867			
279 ->301	-0.13341			
279 ->303	-0.10950			
284 ->302	0.11853			

Orbital coefficients of atoms corresponding to peaks 1 and 2 in the absorption spectrum of cluster 1 in DMSO solution

Peak 1: 285→291; 285→293

			285(HOMO)
23	S	1S	-0.00110
		2S	0.00493
		2PX	0.02698
		2PY	0.02039
		2PZ	-0.08656
		3S	-0.01179
		3PX	-0.07152
		3PY	-0.05422
		3PZ	0.22799
		4S	-0.00364
		4PX	-0.04675
		4PY	-0.03215
		4PZ	0.15302
		5D 0	0.00291
		5D+1	-0.00579
		5D-1	-0.00120
		5D+2	0.00132
		5D-2	0.00264
27	S	1S	0.00152
		2S	-0.00682

		2PX	-0.08589
		2PY	0.03258
		2PZ	0.00397
		3S	0.01622
		3PX	0.22835
		3PY	-0.08645
		3PZ	-0.00992
		4S	0.01632
		4PX	0.13329
		4PY	-0.04723
		4PZ	-0.01352
		5D 0	0.00316
		5D+1	0.00364
		5D-1	-0.00205
		5D+2	-0.00290
		5D-2	0.00560
28	S	1S	0.00058
		2S	-0.00295
		2PX	0.03068
		2PY	0.02995
		2PZ	-0.11086
		3S	0.00510
		3PX	-0.08048
		3PY	-0.07791
		3PZ	0.29123
		4S	0.00242
		4PX	-0.05243
		4PY	-0.05773
		4PZ	0.19137
		5D 0	-0.00344
		5D+1	0.00436
		5D-1	-0.00320
		5D+2	-0.00134
		5D-2	-0.00086
30	S	1S	0.00002
		2S	0.00004
		2PX	-0.01638
		2PY	-0.03479
		2PZ	0.07514
		3S	0.00052
		3PX	0.04317
		3PY	0.09005
		3PZ	-0.19531
		4S	-0.01850

		4PX	0.03810
		4PY	0.06603
		4PZ	-0.13278
		5D 0	0.00066
		5D+1	0.00258
		5D-1	-0.00112
		5D+2	-0.00154
		5D-2	-0.00107
33	S	1S	-0.00108
		2S	0.00478
		2PX	-0.09282
		2PY	0.07107
		2PZ	-0.00231
		3S	-0.01196
		3PX	0.24329
		3PY	-0.18585
		3PZ	0.00608
		4S	-0.00633
		4PX	0.15782
		4PY	-0.13013
		4PZ	0.00956
		5D 0	-0.00293
		5D+1	-0.00210
		5D-1	0.00270
		5D+2	0.00537
		5D-2	-0.00201
34	S	1S	0.00019
		2S	-0.00078
		2PX	0.05734
		2PY	-0.06431
		2PZ	0.00910
		3S	0.00241
		3PX	-0.15018
		3PY	0.16801
		3PZ	-0.02255
		4S	0.02744
		4PX	-0.10048
		4PY	0.12008
		4PZ	-0.00544
		5D 0	0.00050
		5D+1	-0.00253
		5D-1	0.00294
		5D+2	0.00088
		5D-2	0.00022

……

291(LUMO+5)

3	W	1S	0.00081
		2S	0.00719
		3S	-0.11187
		4PX	0.00212
		4PY	0.00302
		4PZ	0.00309
		5PX	0.00361
		5PY	-0.02123
		5PZ	-0.00500
		6PX	-0.12733
		6PY	-0.09314
		6PZ	0.01381
		7D 0	-0.39572
		7D+1	-0.10290
		7D-1	0.12006
		7D+2	-0.00926
		7D-2	-0.06049
		8D 0	-0.20339
		8D+1	-0.03629
		8D-1	0.08556
		8D+2	-0.00542
		8D-2	-0.03766
		9F 0	0.00048
		9F+1	0.00055
		9F-1	0.00127
		9F+2	-0.00066
		9F-2	0.00048
		9F+3	-0.00078
21	S	1S	-0.00013
		2S	-0.00016
		2PX	-0.00067
		2PY	0.02294
		2PZ	0.04582
		3S	-0.00410
		3PX	0.00186
		3PY	-0.06076
		3PZ	-0.11918
		4S	0.03617
		4PX	0.00414
		4PY	-0.08666
		4PZ	-0.15311

		5D 0	0.01464
		5D+1	-0.00228
		5D-1	-0.01483
		5D+2	0.01209
		5D-2	-0.00152
22	S	1S	-0.00118
		2S	0.00524
		2PX	0.01964
		2PY	-0.01149
		2PZ	-0.04838
		3S	-0.01332
		3PX	-0.05030
		3PY	0.03116
		3PZ	0.12863
		4S	-0.03328
		4PX	-0.06590
		4PY	0.02487
		4PZ	0.14364
		5D 0	0.01329
		5D+1	0.01372
		5D-1	-0.00055
		5D+2	-0.01035
		5D-2	0.00326
24	S	1S	-0.00033
		2S	0.00120
		2PX	-0.03092
		2PY	0.01645
		2PZ	-0.03262
		3S	-0.00472
		3PX	0.08116
		3PY	-0.04240
		3PZ	0.08494
		4S	0.01072
		4PX	0.10762
		4PY	-0.06457
		4PZ	0.10622
		5D 0	0.01777
		5D+1	-0.00146
		5D-1	-0.00553
		5D+2	-0.01215
		5D-2	0.00772
26	S	1S	-0.00134
		2S	0.00587
		2PX	0.01356

		2PY	-0.03375
		2PZ	0.03101
		3S	-0.01562
		3PX	-0.03669
		3PY	0.08786
		3PZ	-0.08460
		4S	-0.04988
		4PX	-0.03888
		4PY	0.10353
		4PZ	-0.08711
		5D 0	0.01413
		5D+1	0.00560
		5D-1	0.00064
		5D+2	0.01406
		5D-2	-0.00230
		9F-3	0.00031
1	W	1S	-0.00116
		2S	-0.01090
		3S	-0.03488
		4PX	0.00388
		4PY	-0.00809
		4PZ	-0.00095
		5PX	0.00365
		5PY	0.04112
		5PZ	-0.00112
		6PX	0.08499
		6PY	0.09950
		6PZ	-0.01361
		7D 0	0.17675
		7D+1	0.13290
		7D-1	0.19225
		7D+2	0.17652
		7D-2	-0.17359
		8D 0	0.08720
		8D+1	0.08602
		8D-1	0.08440
		8D+2	0.10877
		8D-2	-0.08498
		9F 0	0.00018
		9F+1	0.00046
		9F-1	0.00033
		9F+2	0.00085
		9F-2	-0.00030

		9F+3	-0.00020
		9F-3	-0.00076
12	S	1S	-0.00018
		2S	0.00033
		2PX	0.01131
		2PY	0.02304
		2PZ	-0.02890
		3S	-0.00363
		3PX	-0.03062
		3PY	-0.05975
		3PZ	0.07650
		4S	0.03623
		4PX	-0.03191
		4PY	-0.06149
		4PZ	0.10188
		5D 0	-0.01385
		5D+1	0.00510
		5D-1	-0.00694
		5D+2	-0.00844
		5D-2	0.00198
14	S	1S	0.00006
		2S	-0.00094
		2PX	-0.03716
		2PY	-0.02954
		2PZ	-0.00815
		3S	-0.00188
		3PX	0.09788
		3PY	0.07831
		3PZ	0.02054
		4S	-0.00204
		4PX	0.11232
		4PY	0.09805
		4PZ	0.02879
		5D 0	-0.00204
		5D+1	-0.01178
		5D-1	-0.00427
		5D+2	-0.01783
		5D-2	0.00222
17	S	1S	0.00029
		2S	-0.00180
		2PX	0.01622
		2PY	0.03596
		2PZ	0.01474
		3S	0.00156

		3PX	-0.04518
		3PY	-0.09521
		3PZ	-0.03917
		4S	0.02493
		4PX	-0.02307
		4PY	-0.10832
		4PZ	-0.05359
		5D 0	-0.00665
		5D+1	0.00234
		5D-1	-0.01355
		5D+2	0.00119
		5D-2	0.00910
19	S	1S	-0.00023
		2S	0.00107
		2PX	0.00121
		2PY	-0.02818
		2PZ	0.02925
		3S	-0.00245
		3PX	-0.00217
		3PY	0.07500
		3PZ	-0.07705
		4S	-0.02964
		4PX	0.00091
		4PY	0.08832
		4PZ	-0.08777
		5D 0	-0.00601
		5D+1	-0.01583
		5D-1	0.00073
		5D+2	-0.00459
		5D-2	0.01179
5	W	1S	-0.00100
		2S	-0.00662
		3S	0.03617
		4PX	-0.00168
		4PY	0.00657
		4PZ	-0.00605
		5PX	0.01575
		5PY	-0.00864
		5PZ	-0.01347
		6PX	-0.17962
		6PY	-0.06815
		6PZ	0.05178
		7D 0	0.24344

		7D+1	0.15166
		7D-1	-0.00600
		7D+2	0.01832
		7D-2	0.08418
		8D 0	0.11089
		8D+1	0.09629
		8D-1	-0.00639
		8D+2	0.01804
		8D-2	0.06386
		9F 0	-0.00006
		9F+1	-0.00027
		9F-1	0.00048
		9F+2	-0.00002
		9F-2	0.00001
		9F+3	-0.00110
		9F-3	0.00011
29	S	1S	0.00050
		2S	-0.00316
		2PX	0.02987
		2PY	-0.01400
		2PZ	0.02373
		3S	0.00218
		3PX	-0.07781
		3PY	0.03692
		3PZ	-0.06419
		4S	0.05386
		4PX	-0.08822
		4PY	0.04506
		4PZ	-0.07442
		5D 0	-0.01190
		5D+1	-0.00506
		5D-1	0.00376
		5D+2	0.00929
		5D-2	-0.00282
31	S	1S	-0.00069
		2S	0.00317
		2PX	-0.00588
		2PY	0.02150
		2PZ	0.02508
		3S	-0.00721
		3PX	0.01780
		3PY	-0.05642
		3PZ	-0.06424
		4S	-0.02812

		4PX	0.00974
		4PY	-0.07319
		4PZ	-0.09317
		5D 0	-0.00489
		5D+1	-0.01490
		5D-1	-0.00278
		5D+2	0.00065
		5D-2	-0.00494
32	S	1S	0.00003
		2S	0.00056
		2PX	0.00927
		2PY	-0.02219
		2PZ	-0.02365
		3S	0.00290
		3PX	-0.02425
		3PY	0.05821
		3PZ	0.06379
		4S	-0.00243
		4PX	-0.03149
		4PY	0.07305
		4PZ	0.06282
		5D 0	-0.01286
		5D+1	0.00134
		5D-1	0.00321
		5D+2	-0.00750
		5D-2	-0.00009
35	S	1S	-0.00010
		2S	0.00070
		2PX	-0.01595
		2PY	0.01694
		2PZ	-0.02250
		3S	-0.00020
		3PX	0.04099
		3PY	-0.04480
		3PZ	0.05822
		4S	-0.01689
		4PX	0.06542
		4PY	-0.05881
		4PZ	0.07505
		5D 0	-0.00734
		5D+1	-0.00495
		5D-1	-0.00661
		5D+2	-0.01028
		5D-2	-0.00437

4	W	1S	-0.00083
		2S	-0.00672
		3S	0.00766
		4PX	-0.00114
		4PY	-0.00271
		4PZ	-0.00157
		5PX	0.01535
		5PY	-0.00405
		5PZ	0.00769
		6PX	0.04698
		6PY	0.00927
		6PZ	0.05144
		7D 0	-0.11447
		7D+1	-0.01100
		7D-1	0.13683
		7D+2	-0.12514
		7D-2	0.20320
		8D 0	-0.06767
		8D+1	-0.01434
		8D-1	0.06604
		8D+2	-0.05699
		8D-2	0.10998
		9F 0	-0.00018
		9F+1	0.00007
		9F-1	-0.00140
		9F+2	0.00015
		9F-2	-0.00012
		9F+3	0.00034
		9F-3	-0.00002
20	S	1S	0.00025
		2S	-0.00125
		2PX	-0.01602
		2PY	-0.01626
		2PZ	-0.02580
		3S	0.00222
		3PX	0.04156
		3PY	0.04209
		3PZ	0.06723
		4S	0.00185
		4PX	0.05696
		4PY	0.05592
		4PZ	0.09051
		5D 0	0.01517

		5D+1	0.00031
		5D-1	-0.00234
		5D+2	0.00028
		5D-2	-0.00618
23	S	1S	0.00025
		2S	-0.00119
		2PX	-0.00317
		2PY	0.03347
		2PZ	-0.00092
		3S	0.00245
		3PX	0.00878
		3PY	-0.08659
		3PZ	0.00278
		4S	-0.00256
		4PX	0.01204
		4PY	-0.11929
		4PZ	0.00401
		5D 0	-0.00071
		5D+1	0.00218
		5D-1	-0.00233
		5D+2	0.00343
		5D-2	-0.01593
25	S	1S	0.00143
		2S	-0.00688
		2PX	0.02591
		2PY	0.01209
		2PZ	0.02436
		3S	0.01405
		3PX	-0.06695
		3PY	-0.03196
		3PZ	-0.06484
		4S	0.04041
		4PX	-0.08818
		4PY	-0.04698
		4PZ	-0.07268
		5D 0	-0.00438
		5D+1	0.00233
		5D-1	-0.00504
		5D+2	0.01221
		5D-2	-0.00673
27	S	1S	0.00071
		2S	-0.00330
		2PX	-0.00801
		2PY	-0.03239

		2PZ	0.01215
		3S	0.00768
		3PX	0.02038
		3PY	0.08586
		3PZ	-0.03074
		4S	0.02842
		4PX	0.03331
		4PY	0.10223
		4PZ	-0.03852
		5D 0	0.00947
		5D+1	-0.00241
		5D-1	-0.00839
		5D+2	0.00402
		5D-2	-0.00031

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293(LUMO+7)

1	W	1S	0.00168
		2S	0.01024
		3S	0.03684
		4PX	0.00171
		4PY	-0.00225
		4PZ	-0.01345
		5PX	-0.00354
		5PY	-0.00528
		5PZ	0.01123
		6PX	0.00942
		6PY	-0.02337
		6PZ	0.09938
		7D 0	0.34479
		7D+1	0.26166
		7D-1	-0.04632
		7D+2	-0.28209
		7D-2	0.40129
		8D 0	0.18186
		8D+1	0.12479
		8D-1	-0.02028
		8D+2	-0.14170
		8D-2	0.20789
		9F 0	0.00091
		9F+1	-0.00002
		9F-1	-0.00041
		9F+2	-0.00093
		9F-2	0.00010

		9F+3	0.00106
		9F-3	0.00051
12	S	1S	0.00016
		2S	0.00058
		2PX	-0.06887
		2PY	0.00498
		2PZ	-0.01308
		3S	0.00652
		3PX	0.17956
		3PY	-0.01289
		3PZ	0.03497
		4S	-0.02529
		4PX	0.23629
		4PY	-0.02334
		4PZ	0.03643
		5D 0	-0.00256
		5D+1	-0.01556
		5D-1	-0.00739
		5D+2	-0.00104
		5D-2	-0.03094
14	S	1S	0.00020
		2S	-0.00082
		2PX	0.05140
		2PY	-0.01541
		2PZ	-0.05475
		3S	0.00243
		3PX	-0.13275
		3PY	0.03869
		3PZ	0.14273
		4S	0.01283
		4PX	-0.18267
		4PY	0.06308
		4PZ	0.19008
		5D 0	-0.02745
		5D+1	0.00624
		5D-1	0.01525
		5D+2	0.00271
		5D-2	-0.01680
17	S	1S	0.00080
		2S	-0.00334
		2PX	0.04724
		2PY	-0.03496
		2PZ	0.02967
		3S	0.00957

		3PX	-0.12656
		3PY	0.09183
		3PZ	-0.07764
		4S	-0.00792
		4PX	-0.13482
		4PY	0.11812
		4PZ	-0.09199
		5D 0	-0.02206
		5D+1	-0.01332
		5D-1	0.01793
		5D+2	0.01239
		5D-2	-0.00015
19	S	1S	0.00029
		2S	-0.00062
		2PX	-0.03096
		2PY	0.05472
		2PZ	0.04702
		3S	0.00576
		3PX	0.08044
		3PY	-0.14255
		3PZ	-0.12246
		4S	-0.00996
		4PX	0.10868
		4PY	-0.18498
		4PZ	-0.16197
		5D 0	-0.00634
		5D+1	-0.01472
		5D-1	-0.01694
		5D+2	0.02331
		5D-2	-0.01708

……

Peak 2:276→302; 277→298

276(HOMO-9)

12	S	1S	0.00038
		2S	-0.00164
		2PX	-0.07020
		2PY	0.03860
		2PZ	-0.08080
		3S	0.00440
		3PX	0.18480
		3PY	-0.10175
		3PZ	0.21184
		4S	-0.00087

		4PX	0.11451
		4PY	-0.06080
		4PZ	0.13756
		5D 0	0.00411
		5D+1	0.00186
		5D-1	0.00400
		5D+2	0.00281
		5D-2	0.00340
14	S	1S	0.00027
		2S	-0.00103
		2PX	-0.02789
		2PY	0.04230
		2PZ	0.07930
		3S	0.00350
		3PX	0.07372
		3PY	-0.11152
		3PZ	-0.20693
		4S	0.02153
		4PX	0.05175
		4PY	-0.07788
		4PZ	-0.13350
		5D 0	-0.00468
		5D+1	-0.00108
		5D-1	-0.00050
		5D+2	-0.00002
		5D-2	-0.00303
32	S	1S	0.00054
		2S	-0.00245
		2PX	-0.04356
		2PY	-0.06413
		2PZ	-0.06611
		3S	0.00579
		3PX	0.11448
		3PY	0.16947
		3PZ	0.17423
		4S	-0.00466
		4PX	0.07536
		4PY	0.10699
		4PZ	0.10889
		5D 0	0.00365
		5D+1	0.00222
		5D-1	-0.00072
		5D+2	0.00125
		5D-2	-0.00097

35	S	1S	0.00011
		2S	-0.00054
		2PX	0.04014
		2PY	-0.04369
		2PZ	0.05910
		3S	0.00122
		3PX	-0.10526
		3PY	0.11517
		3PZ	-0.15431
		4S	0.02290
		4PX	-0.06531
		4PY	0.08447
		4PZ	-0.09872
		5D 0	-0.00337
		5D+1	-0.00195
		5D-1	-0.00064
		5D+2	-0.00232
		5D-2	-0.00124

……

302(LUMO+16)

1	W	1S	0.00079
		2S	0.00830
		3S	0.19666
		4PX	-0.02751
		4PY	-0.04632
		4PZ	0.05552
		5PX	0.01731
		5PY	-0.00407
		5PZ	-0.05241
		6PX	-0.08643
		6PY	-0.12565
		6PZ	0.09308
		7D 0	0.13934
		7D+1	-0.24513
		7D-1	0.01891
		7D+2	0.00844
		7D-2	0.06051
		8D 0	0.07599
		8D+1	-0.16424
		8D-1	0.03517
		8D+2	-0.01057
		8D-2	0.04297
		9F 0	0.00112

		9F+1	-0.00157
		9F-1	0.00075
		9F+2	0.00179
		9F-2	0.00430
		9F+3	0.00273
		9F-3	0.00323
12	S	1S	0.00264
		2S	-0.01010
		2PX	0.01296
		2PY	0.01763
		2PZ	-0.03046
		3S	0.03561
		3PX	-0.03483
		3PY	-0.04674
		3PZ	0.08351
		4S	-0.00355
		4PX	-0.04491
		4PY	-0.08061
		4PZ	0.07151
		5D 0	-0.01174
		5D+1	-0.00047
		5D-1	-0.00571
		5D+2	-0.01259
		5D-2	0.00813
14	S	1S	0.00413
		2S	-0.02016
		2PX	0.01225
		2PY	0.02305
		2PZ	-0.03140
		3S	0.04043
		3PX	-0.03112
		3PY	-0.06330
		3PZ	0.08541
		4S	0.14419
		4PX	-0.03231
		4PY	-0.09123
		4PZ	0.11259
		5D 0	-0.00667
		5D+1	-0.00231
		5D-1	0.01201
		5D+2	0.01120
		5D-2	-0.00638
17	S	1S	0.00024
		2S	0.00203

		2PX	0.00163
		2PY	0.02249
		2PZ	-0.03546
		3S	0.01355
		3PX	-0.00160
		3PY	-0.05961
		3PZ	0.09278
		4S	-0.06332
		4PX	-0.03403
		4PY	-0.09573
		4PZ	0.15467
		5D 0	0.01179
		5D+1	-0.02038
		5D-1	-0.00839
		5D+2	0.00206
		5D-2	0.00535
19	S	1S	0.00466
		2S	-0.02185
		2PX	0.02059
		2PY	0.02598
		2PZ	-0.03370
		3S	0.04843
		3PX	-0.05746
		3PY	-0.07077
		3PZ	0.08977
		4S	0.12372
		4PX	-0.07682
		4PY	-0.08797
		4PZ	0.11202
		5D 0	0.01086
		5D+1	0.01237
		5D-1	0.00673
		5D+2	0.00284
		5D-2	-0.00905
4	W	1S	0.00002
		2S	-0.00810
		3S	-0.03764
		4PX	0.08584
		4PY	-0.07500
		4PZ	0.04609
		5PX	-0.00638
		5PY	-0.00413
		5PZ	-0.01550

		6PX	0.14774
		6PY	-0.05428
		6PZ	0.07804
		7D 0	-0.02867
		7D+1	0.03557
		7D-1	-0.15219
		7D+2	0.30348
		7D-2	0.28928
		8D 0	-0.01776
		8D+1	0.00172
		8D-1	-0.09613
		8D+2	0.20572
		8D-2	0.21597
		9F 0	-0.00015
		9F+1	0.00258
		9F-1	-0.00209
		9F+2	-0.00192
		9F-2	-0.00441
		9F+3	0.00070
		9F-3	-0.00091
20	S	1S	-0.00191
		2S	0.01080
		2PX	-0.03841
		2PY	0.03488
		2PZ	-0.02129
		3S	-0.01348
		3PX	0.10223
		3PY	-0.09369
		3PZ	0.05718
		4S	-0.11447
		4PX	0.11508
		4PY	-0.13844
		4PZ	0.09801
		5D 0	0.00649
		5D+1	0.01623
		5D-1	-0.02023
		5D+2	-0.01393
		5D-2	-0.00572
23	S	1S	-0.00405
		2S	0.02238
		2PX	-0.04649
		2PY	0.02670
		2PZ	-0.01838
		3S	-0.03042

		3PX	0.12459
		3PY	-0.07090
		3PZ	0.05020
		4S	-0.20533
		4PX	0.21715
		4PY	-0.08517
		4PZ	0.06488
		5D 0	-0.00355
		5D+1	0.01647
		5D-1	-0.00747
		5D+2	0.02084
		5D-2	-0.00962
25	S	1S	0.00510
		2S	-0.02852
		2PX	-0.04393
		2PY	0.04117
		2PZ	-0.01766
		3S	0.03679
		3PX	0.11816
		3PY	-0.11047
		3PZ	0.04656
		4S	0.26560
		4PX	0.18785
		4PY	-0.21429
		4PZ	0.05902
		5D 0	0.01198
		5D+1	-0.00340
		5D-1	0.00601
		5D+2	0.00367
		5D-2	0.02638
27	S	1S	0.00334
		2S	-0.01551
		2PX	-0.02736
		2PY	0.02465
		2PZ	-0.02181
		3S	0.03517
		3PX	0.07198
		3PY	-0.06595
		3PZ	0.05916
		4S	0.07941
		4PX	0.11305
		4PY	-0.07833
		4PZ	0.08805
		5D 0	-0.01136

		5D+1	-0.02366
		5D-1	0.01242
		5D+2	-0.00359
		5D-2	0.00211

277(HOMO-8)

12	S	1S	0.00013
		2S	-0.00102
		2PX	0.03009
		2PY	0.03911
		2PZ	-0.06049
		3S	-0.00020
		3PX	-0.07871
		3PY	-0.10327
		3PZ	0.15818
		4S	0.00150
		4PX	-0.05361
		4PY	-0.06049
		4PZ	0.10630
		5D 0	0.00231
		5D+1	0.00020
		5D-1	0.00281
		5D+2	0.00244
		5D-2	-0.00089
14	S	1S	0.00006
		2S	-0.00058
		2PX	-0.05315
		2PY	0.00459
		2PZ	0.05310
		3S	-0.00035
		3PX	0.13943
		3PY	-0.01242
		3PZ	-0.13833
		4S	0.02037
		4PX	0.09453
		4PY	-0.01255
		4PZ	-0.09113
		5D 0	-0.00270
		5D+1	0.00008
		5D-1	0.00091
		5D+2	0.00159
		5D-2	-0.00285
17	S	1S	-0.00120
		2S	0.00570

		2PX	0.01653
		2PY	-0.08460
		2PZ	0.00389
		3S	-0.01185
		3PX	-0.04346
		3PY	0.22236
		3PZ	-0.01050
		4S	-0.01340
		4PX	-0.02966
		4PY	0.14612
		4PZ	-0.00135
		5D 0	0.00069
		5D+1	0.00287
		5D-1	0.00030
		5D+2	-0.00055
		5D-2	0.00566
29	S	1S	0.00019
		2S	-0.00096
		2PX	0.07742
		2PY	-0.01354
		2PZ	0.05548
		3S	0.00155
		3PX	-0.20435
		3PY	0.03564
		3PZ	-0.14441
		4S	-0.02552
		4PX	-0.13798
		4PY	0.02157
		4PZ	-0.08682
		5D 0	0.00405
		5D+1	0.00311
		5D-1	-0.00115
		5D+2	-0.00003
		5D-2	0.00055
31	S	1S	-0.00012
		2S	0.00112
		2PX	0.03106
		2PY	-0.03739
		2PZ	-0.11010
		3S	0.00102
		3PX	-0.08217
		3PY	0.09878
		3PZ	0.28941
		4S	-0.00516

		4PX	-0.05112
		4PY	0.05996
		4PZ	0.18741
		5D 0	-0.00344
		5D+1	-0.00663
		5D-1	-0.00123
		5D+2	0.00193
		5D-2	-0.00184
35	S	1S	0.00028
		2S	-0.00129
		2PX	-0.05838
		2PY	0.01748
		2PZ	0.00051
		3S	0.00302
		3PX	0.15388
		3PY	-0.04481
		3PZ	-0.00095
		4S	0.02646
		4PX	0.09732
		4PY	-0.02296
		4PZ	0.00516
		5D 0	0.00028
		5D+1	0.00131
		5D-1	0.00017
		5D+2	0.00014
		5D-2	0.00328

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298(LUMO+12)

3	W	1S	0.00045
		2S	0.00052
		3S	0.05574
		4PX	0.00553
		4PY	0.00244
		4PZ	0.07761
		5PX	-0.01658
		5PY	-0.00526
		5PZ	-0.05216
		6PX	0.01687
		6PY	-0.00656
		6PZ	0.06847
		7D 0	-0.00298
		7D+1	-0.08527
		7D-1	-0.11218

		7D+2	0.25683
		7D-2	-0.08359
		8D 0	0.00517
		8D+1	-0.05882
		8D-1	-0.06028
		8D+2	0.17038
		8D-2	-0.04879
		9F 0	0.00268
		9F+1	0.00083
		9F-1	-0.00287
		9F+2	0.00065
		9F-2	-0.00059
		9F+3	0.00007
		9F-3	-0.00107
21	S	1S	0.00196
		2S	-0.01035
		2PX	-0.00496
		2PY	-0.00141
		2PZ	-0.03911
		3S	0.01615
		3PX	0.01323
		3PY	0.00317
		3PZ	0.10447
		4S	0.08686
		4PX	0.01405
		4PY	-0.01379
		4PZ	0.13760
		5D 0	-0.01528
		5D+1	-0.00254
		5D-1	0.01257
		5D+2	-0.00045
		5D-2	0.00061
22	S	1S	-0.00065
		2S	0.00521
		2PX	-0.00798
		2PY	0.00298
		2PZ	-0.03120
		3S	0.00090
		3PX	0.02092
		3PY	-0.00765
		3PZ	0.08278
		4S	-0.06805
		4PX	0.04545
		4PY	-0.01854

		4PZ	0.10966
		5D 0	0.01274
		5D+1	0.01444
		5D-1	-0.00504
		5D+2	0.00660
		5D-2	0.00311
24	S	1S	-0.00167
		2S	0.01028
		2PX	0.00229
		2PY	-0.00155
		2PZ	-0.03589
		3S	-0.00884
		3PX	-0.00550
		3PY	0.00422
		3PZ	0.09563
		4S	-0.10976
		4PX	-0.04135
		4PY	0.00352
		4PZ	0.14096
		5D 0	0.01714
		5D+1	-0.00896
		5D-1	0.00093
		5D+2	0.00061
		5D-2	-0.00624
26	S	1S	0.00376
		2S	-0.01954
		2PX	-0.00870
		2PY	-0.01201
		2PZ	-0.03826
		3S	0.03235
		3PX	0.02464
		3PY	0.03238
		3PZ	0.10324
		4S	0.14121
		4PX	0.01919
		4PY	0.06243
		4PZ	0.13782
		5D 0	-0.01587
		5D+1	-0.00578
		5D-1	-0.01023
		5D+2	0.00411
		5D-2	-0.00127

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Cartesian coordinates of cluster 2:

W	-9.48832810	-42.41988190	-4.18381040
W	3.38467190	-42.41988190	-4.18381040
W	-4.06143600	-44.93448520	-3.81177330
W	8.81156400	-44.93448520	-3.81177330
W	1.08362260	-47.84506080	-3.25532410
W	13.95662260	-47.84506080	-3.25532410
Ag	-1.53625920	-46.47605710	-3.59523360
Ag	11.33674080	-46.47605710	-3.59523360
Ag	-6.75863440	-43.62511080	-3.87699230
Ag	6.11436560	-43.62511080	-3.87699230
Ag	2.21517700	-45.10210710	-3.59716130
S	4.04855350	-44.27773710	-5.24466210
S	-8.82444650	-44.27773710	-5.24466210
S	13.48841910	-46.53623610	-5.01125550
S	0.61541910	-46.53623610	-5.01125550
S	8.25698920	-43.36790740	-5.23775470
S	-4.61601080	-43.36790740	-5.23775470
S	2.81880190	-40.99124870	-5.68962870
S	-10.05432680	-40.99124870	-5.68962870
S	2.46955200	-46.92286560	-1.85006500
S	15.34255200	-46.92286560	-1.85006500
S	-0.74706250	-48.42706610	-2.16298740
S	12.12593750	-48.42706610	-2.16298740
S	-11.24906690	-42.75155340	-2.89886900
S	1.62393310	-42.75155340	-2.89886900
S	9.23862490	-46.79206560	-4.94185990
S	-3.63437510	-46.79206560	-4.94185990
S	-7.89586590	-41.52269250	-2.95589540
S	4.97713410	-41.52269250	-2.95589540
S	-2.31827820	-44.21838240	-2.68746970
S	10.55472180	-44.21838240	-2.68746970
S	-5.66217170	-45.38871300	-2.36812180
S	7.21082830	-45.38871300	-2.36812180
S	1.99773350	-49.64768330	-3.99184820
S	14.87073350	-49.64768330	-3.99184820

Cluster 2 B3LYP/LanL2DZf+6-31Gd TD-PCM (300 states) in DMF (dielectric constant=36.71)

Excitation energies and oscillator strengths:

Excited State 1: Singlet-A 2.5347 eV 489.15 nm f=0.0012
282 ->286 -0.16965

283 ->286 0.22441
283 ->287 0.10957
284 ->286 0.36553
284 ->287 0.16082
285 ->286 -0.31698
285 ->287 -0.14751

This state for optimization and/or second-order correction.

Total Energy, E(RPA) = -10694.8123114

Copying the excited state density for this state as the 1-particle RhoCI density.

Excited State 2: Singlet-A 2.5598 eV 484.34 nm f=0.0010
275 ->287 0.11917
282 ->286 -0.18662
282 ->287 0.38446
285 ->286 0.12247
285 ->287 -0.37255
285 ->289 0.12087
285 ->293 0.10051

Excited State 3: Singlet-A 2.5637 eV 483.62 nm f=0.0022
276 ->287 0.11198
277 ->287 0.10100
278 ->286 -0.12412
278 ->287 0.12946
281 ->287 -0.13086
282 ->287 0.25560
283 ->286 -0.23289
283 ->287 0.32324
285 ->287 0.23015

Excited State 4: Singlet-A 2.5647 eV 483.43 nm f=0.0014
276 ->286 0.18441
278 ->286 -0.13623
278 ->287 -0.12748
282 ->286 0.11042
283 ->286 -0.15002
283 ->287 -0.20635
284 ->286 0.33907
284 ->287 0.13001
285 ->286 0.24940
285 ->290 0.12079

Excited State 5: Singlet-A 2.6342 eV 470.67 nm f=0.0005
276 ->288 0.12015

281 ->288	0.16491
281 ->289	0.30313
281 ->290	-0.11630
281 ->293	-0.16081
283 ->289	0.11378
285 ->288	-0.16240
285 ->289	-0.29120
285 ->290	0.12662
285 ->293	0.15683

Excited State 6: Singlet-A 2.6588 eV 466.32 nm f=0.0009

268 ->289	-0.11765
278 ->288	0.13862
281 ->289	0.11688
281 ->290	0.17693
281 ->291	-0.21362
281 ->292	0.22186
285 ->289	-0.13647
285 ->290	-0.17406
285 ->291	0.22202
285 ->292	-0.20012

Excited State 7: Singlet-A 2.6726 eV 463.90 nm f=0.0039

276 ->288	-0.12553
281 ->286	-0.12355
281 ->287	-0.12211
281 ->288	-0.28143
281 ->289	0.14154
282 ->288	-0.10137
283 ->288	-0.16256
285 ->288	0.33670
285 ->289	-0.14479
285 ->293	0.10106

Excited State 8: Singlet-A 2.6999 eV 459.22 nm f=0.0006

272 ->286	0.10529
273 ->286	0.18034
273 ->287	0.14458
274 ->286	-0.15446
274 ->287	0.32972
275 ->287	0.13267
276 ->288	0.13230
276 ->290	0.12398
277 ->286	-0.13430

278 ->288 0.21070
278 ->289 0.11796

Excited State 9: Singlet-A 2.7016 eV 458.93 nm f=0.0001
272 ->286 0.13322
272 ->287 0.17234
273 ->286 0.45944
273 ->287 0.17473
274 ->286 0.10785
274 ->287 -0.23099
277 ->287 -0.10932
278 ->286 0.12056

Excited State 10: Singlet-A 2.7064 eV 458.11 nm f=0.0008
272 ->286 0.14667
272 ->287 -0.11432
273 ->287 0.12826
274 ->286 -0.13263
274 ->287 0.31427
274 ->290 -0.10425
276 ->288 -0.14530
276 ->290 -0.15258
278 ->288 -0.25646
278 ->289 -0.12612

Excited State 11: Singlet-A 2.7147 eV 456.72 nm f=0.0010
269 ->288 0.10589
272 ->286 0.13136
273 ->286 0.13889
276 ->289 0.12000
277 ->286 0.10358
277 ->288 0.34311
278 ->286 -0.11706
278 ->290 0.22995
281 ->288 -0.14261
284 ->288 0.12759
285 ->288 0.14016

Excited State 12: Singlet-A 2.7334 eV 453.58 nm f=0.0003
271 ->291 -0.11713
276 ->286 -0.12930
276 ->288 -0.17617
276 ->290 0.12217
277 ->288 0.21681

284 ->290	0.19725
284 ->291	-0.12505
284 ->292	-0.18013
284 ->293	-0.10280

Excited State 13: Singlet-A 2.7440 eV 451.83 nm f=0.0002

271 ->286	0.10933
271 ->290	-0.10473
275 ->288	0.14858
276 ->286	-0.10149
276 ->288	-0.19241
276 ->291	0.13135
277 ->286	0.11418
277 ->288	0.10619
281 ->291	0.12647
284 ->291	0.11025
284 ->292	0.20077
285 ->288	-0.12067
285 ->289	-0.10095
285 ->292	0.14359

Excited State 14: Singlet-A 2.7490 eV 451.02 nm f=0.0011

276 ->288	-0.14427
282 ->286	0.13689
282 ->287	-0.12180
283 ->289	0.13588
283 ->293	0.15952
284 ->292	0.10844
284 ->293	0.10499
285 ->289	0.15406
285 ->290	0.12384
285 ->292	-0.14976
285 ->293	0.23449

Excited State 15: Singlet-A 2.7579 eV 449.55 nm f=0.0030

277 ->288	0.12517
277 ->290	0.12485
277 ->291	0.19147
281 ->286	0.20863
281 ->287	-0.16457
282 ->287	0.13776
283 ->289	-0.14555
283 ->292	0.11642
283 ->293	-0.11819

285 ->290 0.15762
285 ->293 -0.13540

Excited State 16: Singlet-A 2.7786 eV 446.21 nm f=0.0003
269 ->288 -0.10626
271 ->288 -0.15719
272 ->288 -0.10339
275 ->291 0.10736
276 ->291 -0.13028
277 ->288 0.14625
277 ->290 0.19523
277 ->291 0.20092
281 ->286 -0.14393
281 ->291 0.10453
283 ->290 0.10183
283 ->292 -0.11791
285 ->286 0.12903
285 ->290 -0.15192
285 ->292 0.15560

Excited State 17: Singlet-A 2.7819 eV 445.68 nm f=0.0010
278 ->296 -0.11266
279 ->294 0.15102
281 ->294 0.10797
282 ->294 -0.27901
283 ->294 -0.27897
283 ->296 0.36416
285 ->296 0.25019

Excited State 18: Singlet-A 2.7917 eV 444.12 nm f=0.0001
279 ->287 -0.18681
279 ->294 0.62823
283 ->294 0.11291

Excited State 19: Singlet-A 2.7997 eV 442.84 nm f=0.0005
284 ->295 0.40430
284 ->297 -0.40540
285 ->295 -0.10963

Excited State 20: Singlet-A 2.8055 eV 441.93 nm f=0.0028
282 ->289 -0.11278
282 ->291 0.15405
282 ->292 0.15926
282 ->293 -0.14713

283 ->289	-0.13995
283 ->293	-0.15282
284 ->290	0.12553
284 ->295	0.12229
284 ->297	-0.14869
285 ->287	0.14305
285 ->289	0.11587
285 ->292	0.10599
285 ->293	0.17860

Excited State 21: Singlet-A 2.8192 eV 439.78 nm f=0.0041

280 ->295	-0.11668
281 ->286	0.19841
282 ->289	0.18104
282 ->293	0.17578
282 ->296	-0.12171
283 ->287	-0.17535
283 ->291	-0.12749
283 ->292	-0.10617
283 ->294	0.13768
284 ->290	0.10119
285 ->291	0.16278
285 ->292	0.13146
285 ->294	0.16067

Excited State 22: Singlet-A 2.8287 eV 438.31 nm f=0.0007

280 ->286	-0.18386
280 ->295	0.51287
281 ->296	0.10880
282 ->295	0.11266
282 ->296	-0.13695
283 ->294	0.13007
283 ->295	-0.11074
285 ->294	0.13502
285 ->295	0.10469

Excited State 23: Singlet-A 2.8335 eV 437.56 nm f=0.0118

280 ->286	-0.10505
280 ->295	0.27749
281 ->286	0.11035
281 ->294	-0.12081
281 ->296	-0.18307
282 ->289	0.10403
282 ->296	0.22900

283 ->294	-0.19635
285 ->291	0.13411
285 ->294	-0.21110
285 ->296	-0.15485

Excited State 24: Singlet-A 2.8519 eV 434.74 nm f=0.0066

280 ->295	-0.17850
280 ->297	-0.12711
281 ->287	-0.10776
281 ->295	0.10752
281 ->297	0.18113
282 ->295	0.15670
282 ->297	0.24094
283 ->295	-0.16292
283 ->297	-0.23771
284 ->295	0.24183
285 ->295	0.11890
285 ->297	0.23012

Excited State 25: Singlet-A 2.8822 eV 430.18 nm f=0.0046

281 ->287	0.43153
281 ->288	-0.11842
282 ->286	0.17479
282 ->296	-0.10062
283 ->286	-0.12630
283 ->287	0.21266

Excited State 26: Singlet-A 2.9069 eV 426.52 nm f=0.0055

277 ->287	0.11616
278 ->287	0.17591
281 ->286	0.30561
281 ->290	0.21558
281 ->291	0.11363
282 ->286	0.15289
282 ->290	0.10649
283 ->287	-0.17970
285 ->290	-0.17400
285 ->291	-0.15018

Excited State 27: Singlet-A 2.9189 eV 424.77 nm f=0.0070

272 ->286	-0.12708
275 ->286	0.13303
276 ->286	-0.24632
276 ->287	-0.13782

277 ->286	-0.14855
277 ->287	-0.10190
278 ->286	0.25686
278 ->287	0.14035
278 ->290	0.11155
280 ->286	0.14884
284 ->286	0.15117
284 ->288	-0.10653
284 ->289	0.15480
284 ->291	0.10737

Excited State 28: Singlet-A 2.9289 eV 423.31 nm f=0.0100

272 ->287	0.10353
275 ->287	0.12389
276 ->286	-0.10636
276 ->287	0.27016
278 ->286	-0.12583
278 ->287	0.27968
278 ->289	-0.11541
281 ->290	-0.13552
283 ->289	-0.14745
285 ->287	-0.10654
285 ->291	0.12375

Excited State 29: Singlet-A 2.9444 eV 421.09 nm f=0.0014

280 ->286	0.54835
280 ->287	0.25771
280 ->288	-0.12460
280 ->295	0.23407

Excited State 30: Singlet-A 2.9692 eV 417.56 nm f=0.0001

279 ->286	-0.27716
279 ->287	0.59021
279 ->290	-0.11687
279 ->294	0.21664

Excited State 31: Singlet-A 2.9821 eV 415.76 nm f=0.0211

276 ->286	-0.11663
276 ->288	0.15103
276 ->289	-0.14528
277 ->289	-0.13984
278 ->286	0.19841
278 ->289	0.12936
278 ->291	0.15154

283 ->288	0.11037
284 ->286	0.18057
284 ->288	0.27342
284 ->292	0.17417
284 ->293	0.12380

Excited State 32: Singlet-A 2.9933 eV 414.20 nm f=0.0124

276 ->286	-0.11431
276 ->287	0.13873
276 ->291	-0.15407
277 ->289	0.15379
277 ->291	-0.10389
278 ->287	0.16968
278 ->288	-0.12568
278 ->289	0.20174
278 ->291	-0.12736
282 ->288	-0.16165
283 ->288	-0.16405
283 ->292	0.13298
283 ->293	-0.17420

Excited State 33: Singlet-A 3.0079 eV 412.20 nm f=0.0041

275 ->288	-0.19871
275 ->289	-0.12052
276 ->289	0.26577
276 ->290	-0.10864
276 ->293	-0.10933
277 ->287	0.13479
277 ->288	-0.17873
277 ->289	-0.25696
277 ->293	0.13600
282 ->288	-0.15771

Excited State 34: Singlet-A 3.0265 eV 409.66 nm f=0.0042

275 ->292	-0.12963
277 ->292	0.16925
281 ->289	0.11640
281 ->290	-0.17276
281 ->291	0.16748
281 ->292	0.27520
281 ->293	0.14423
282 ->290	-0.13818
282 ->291	0.11235
282 ->292	0.15028

284 ->288	0.11013			
Excited State 35:	Singlet-A	3.0386 eV	408.03 nm	f=0.0078
275 ->286	-0.10018			
277 ->289	0.17255			
282 ->288	-0.23156			
283 ->286	0.24776			
283 ->288	0.33382			
285 ->286	0.17452			
285 ->287	0.13806			
Excited State 36:	Singlet-A	3.0467 eV	406.94 nm	f=0.0091
275 ->293	0.11018			
276 ->292	-0.10079			
276 ->293	0.12818			
281 ->289	0.23020			
281 ->291	-0.15733			
281 ->292	-0.14684			
281 ->293	0.28174			
282 ->286	0.10861			
282 ->288	0.10542			
282 ->289	-0.14654			
282 ->296	-0.13014			
285 ->293	-0.11775			
285 ->294	-0.14774			
Excited State 37:	Singlet-A	3.0527 eV	406.14 nm	f=0.0237
277 ->287	-0.10145			
281 ->294	-0.18004			
282 ->286	-0.12602			
282 ->294	0.35125			
283 ->286	-0.11288			
283 ->294	0.17205			
283 ->296	0.23694			
285 ->286	-0.10805			
285 ->296	0.15905			
Excited State 38:	Singlet-A	3.0572 eV	405.55 nm	f=0.0336
271 ->289	0.10484			
276 ->286	-0.11655			
276 ->290	0.13657			
277 ->290	-0.15895			
277 ->291	0.18294			
277 ->292	-0.15386			

281 ->293	0.12607
282 ->286	-0.16716
282 ->288	-0.15223
282 ->290	0.13276
282 ->292	0.10129
282 ->294	-0.13234
283 ->286	-0.14735
283 ->294	-0.11955
283 ->296	-0.13402
285 ->288	-0.12785

Excited State 39: Singlet-A 3.0609 eV 405.06 nm f=0.0186

276 ->291	-0.15200
277 ->286	0.15956
277 ->289	-0.12342
277 ->290	-0.11935
277 ->292	-0.10197
278 ->289	0.12347
282 ->288	0.24628
283 ->286	0.23726
284 ->288	-0.12687
285 ->286	0.14095
285 ->287	0.19395
285 ->288	0.11301

Excited State 40: Singlet-A 3.0662 eV 404.36 nm f=0.0013

275 ->287	-0.13101
277 ->287	0.11126
277 ->290	-0.11813
281 ->288	0.19494
282 ->287	-0.12440
282 ->288	-0.16757
283 ->287	0.11440
284 ->287	0.18908
284 ->288	-0.12064
284 ->295	0.15891
284 ->297	0.16761
285 ->286	0.19051
285 ->287	-0.13291
285 ->288	0.14168

Excited State 41: Singlet-A 3.0712 eV 403.70 nm f=0.0203

275 ->286	-0.15274
277 ->290	0.14575

282 ->286	-0.16581
283 ->286	-0.10061
284 ->295	0.26077
284 ->297	0.27706
285 ->287	0.11038
285 ->295	-0.10912

Excited State 42: Singlet-A 3.0734 eV 403.42 nm f=0.0093

278 ->291	-0.10235
282 ->288	0.11614
284 ->286	-0.18209
284 ->287	0.43996
284 ->288	0.27445
284 ->289	0.12919
284 ->290	0.13888
285 ->288	-0.12505

Excited State 43: Singlet-A 3.0793 eV 402.64 nm f=0.0420

275 ->286	-0.11826
280 ->295	-0.11776
281 ->286	0.10233
281 ->295	0.11415
282 ->286	-0.14694
282 ->295	0.17702
282 ->296	-0.13553
282 ->297	-0.10100
283 ->295	-0.18974
284 ->288	-0.11393
285 ->286	0.10483
285 ->287	0.11185
285 ->295	0.19483

Excited State 44: Singlet-A 3.0814 eV 402.37 nm f=0.0060

281 ->289	0.11300
281 ->293	0.12737
281 ->296	-0.17381
282 ->295	0.10962
282 ->296	0.30177
283 ->294	0.17198
283 ->295	-0.11767
283 ->296	0.10923
285 ->288	-0.10576
285 ->294	0.19684
285 ->295	0.11923

Excited State 45:	Singlet-A	3.0835 eV	402.09 nm	f=0.0220
281 ->288	-0.12370			
281 ->291	0.10235			
282 ->286	0.12604			
282 ->289	0.10202			
282 ->295	0.11644			
282 ->297	-0.13582			
283 ->288	0.16012			
283 ->295	-0.13000			
283 ->297	0.13450			
284 ->295	0.23172			
284 ->297	0.23236			
285 ->286	-0.16217			
285 ->297	-0.16367			

Excited State 46:	Singlet-A	3.0863 eV	401.72 nm	f=0.0015
272 ->286	0.10711			
275 ->287	-0.12353			
276 ->287	-0.13671			
277 ->287	0.25551			
281 ->288	-0.17033			
282 ->288	0.15292			
282 ->294	0.10432			
283 ->287	0.10559			
284 ->286	0.11125			
284 ->287	-0.16221			
285 ->286	0.17302			
285 ->287	-0.16476			
285 ->288	-0.18369			

Excited State 47:	Singlet-A	3.0970 eV	400.34 nm	f=0.0031
281 ->288	0.21085			
282 ->288	0.10240			
283 ->288	-0.15871			
284 ->286	0.17149			
284 ->287	-0.19073			
284 ->288	0.41104			
285 ->288	0.11724			

Excited State 48:	Singlet-A	3.1022 eV	399.67 nm	f=0.0082
282 ->286	-0.10321			
282 ->288	0.22010			
283 ->286	-0.24887			

283 ->288	0.36724
283 ->289	0.13008
285 ->288	0.19900

Excited State 49: Singlet-A 3.1183 eV 397.61 nm f=0.0006

275 ->289	-0.15137
276 ->292	0.13082
278 ->293	-0.20415
281 ->286	-0.19416
281 ->290	0.12398
282 ->287	0.18241
282 ->289	-0.10959
282 ->293	0.10962
283 ->287	-0.17716
283 ->289	0.21510
283 ->290	-0.13395

Excited State 50: Singlet-A 3.1220 eV 397.13 nm f=0.0038

276 ->287	0.12878
276 ->293	-0.15778
278 ->289	-0.11553
278 ->292	0.17574
278 ->293	-0.13598
281 ->286	0.11712
281 ->289	0.11075
281 ->293	0.17961
282 ->289	0.18374
282 ->290	0.10924
283 ->286	0.10118
283 ->289	0.14895
283 ->290	0.11460
283 ->291	-0.12893
285 ->293	-0.10423

Excited State 51: Singlet-A 3.1253 eV 396.71 nm f=0.0007

272 ->287	-0.11637
274 ->287	-0.10188
277 ->286	-0.13888
277 ->287	0.19847
281 ->287	0.16002
281 ->288	0.13200
282 ->286	-0.18829
282 ->290	0.13939
282 ->291	0.13734

283 ->287	-0.15369
283 ->289	-0.12007
283 ->290	-0.19064
284 ->290	-0.15452
285 ->288	0.18917

Excited State 52: Singlet-A 3.1296 eV 396.16 nm f=0.0011

280 ->289	0.21406
280 ->290	-0.35326
280 ->291	0.25090
280 ->292	0.38352
280 ->293	0.21117

Excited State 53: Singlet-A 3.1307 eV 396.03 nm f=0.0013

276 ->288	0.10997
278 ->290	-0.13467
278 ->291	0.11632
283 ->289	0.13715
283 ->290	-0.12028
284 ->287	-0.13564
284 ->289	0.40010
284 ->290	0.16100
285 ->289	-0.11735
285 ->290	-0.11304

Excited State 54: Singlet-A 3.1342 eV 395.59 nm f=0.0048

276 ->286	0.11117
276 ->292	0.10635
277 ->286	-0.19894
278 ->288	-0.12588
278 ->290	0.10228
278 ->292	-0.18863
281 ->289	-0.11128
281 ->292	-0.10537
282 ->290	0.22255
283 ->290	0.10423
284 ->287	-0.13547
284 ->290	0.22980
285 ->293	0.10351

Excited State 55: Singlet-A 3.1393 eV 394.94 nm f=0.0006

277 ->287	0.12210
277 ->288	-0.10460
278 ->288	-0.10655

281 ->292	0.11780
282 ->287	0.13831
282 ->292	0.10455
283 ->286	0.10400
283 ->290	0.35668
285 ->287	0.11253
285 ->290	0.28321

Excited State 56: Singlet-A 3.1469 eV 393.99 nm f=0.0035

279 ->289	0.18651
279 ->293	0.17977
281 ->286	-0.13665
281 ->289	0.10239
282 ->287	0.11762
282 ->289	0.11640
283 ->289	-0.24188
283 ->293	0.10737
284 ->287	-0.11164
284 ->289	0.11584
284 ->290	0.28644
284 ->292	0.14384

Excited State 57: Singlet-A 3.1481 eV 393.84 nm f=0.0024

279 ->289	0.38181
279 ->291	-0.18809
279 ->292	-0.20032
279 ->293	0.36453
283 ->289	0.11893
284 ->290	-0.14454

Excited State 58: Singlet-A 3.1604 eV 392.30 nm f=0.0028

271 ->286	0.13765
274 ->286	-0.14098
275 ->286	0.23162
275 ->287	0.14658
276 ->286	-0.11117
276 ->287	-0.10337
277 ->286	0.18258
277 ->287	0.16918
278 ->286	-0.10568
281 ->288	-0.11947
282 ->286	-0.10933
282 ->289	-0.15812
283 ->290	0.11458

284 ->289	-0.15294			
Excited State 59:	Singlet-A	3.1682 eV	391.34 nm	f=0.0009
281 ->287	-0.15867			
281 ->289	0.19195			
281 ->293	-0.19899			
282 ->289	-0.14979			
282 ->290	0.22568			
282 ->291	0.12266			
282 ->293	0.19028			
285 ->289	0.25151			
285 ->293	-0.11100			
Excited State 60:	Singlet-A	3.1696 eV	391.16 nm	f=0.0005
277 ->289	0.10306			
278 ->291	0.10197			
282 ->289	0.25157			
282 ->293	-0.13890			
283 ->286	0.11595			
283 ->289	0.20204			
283 ->291	0.28169			
283 ->293	-0.12912			
285 ->289	0.27716			
285 ->291	0.10844			
Excited State 61:	Singlet-A	3.1758 eV	390.40 nm	f=0.0021
271 ->286	-0.10487			
275 ->286	-0.11066			
276 ->286	0.11251			
277 ->286	-0.16581			
281 ->287	0.11183			
281 ->290	-0.14091			
282 ->289	-0.13504			
282 ->290	-0.15499			
283 ->287	-0.12914			
283 ->289	0.13089			
284 ->289	-0.20240			
284 ->290	0.10480			
284 ->291	0.20935			
285 ->290	-0.12997			
285 ->292	-0.10549			
Excited State 62:	Singlet-A	3.1777 eV	390.17 nm	f=0.0101
271 ->287	-0.10865			

272 ->287	0.18714
275 ->286	-0.12293
275 ->287	0.26458
276 ->287	-0.13631
277 ->287	0.24443
277 ->290	-0.12440
278 ->287	-0.11545
282 ->286	0.11384
284 ->291	-0.14614
285 ->290	-0.15913

Excited State 63: Singlet-A 3.1838 eV 389.42 nm f=0.0046

272 ->287	0.10813
275 ->287	0.12226
282 ->290	0.11218
282 ->292	0.12731
283 ->290	-0.10326
284 ->289	-0.12632
284 ->290	0.11268
284 ->291	0.39098
284 ->292	-0.15742
285 ->291	-0.13201

Excited State 64: Singlet-A 3.1876 eV 388.96 nm f=0.0014

275 ->287	-0.10309
275 ->290	0.12103
277 ->286	0.16666
277 ->290	0.11149
281 ->286	-0.13099
281 ->290	-0.21162
282 ->286	0.13684
282 ->287	0.15148
282 ->288	-0.10670
282 ->290	0.22337
282 ->292	0.17334
284 ->289	-0.10271
285 ->290	-0.14923

Excited State 65: Singlet-A 3.1931 eV 388.29 nm f=0.0847

272 ->289	-0.11007
272 ->293	-0.13316
273 ->293	0.10450
274 ->289	0.26963
274 ->291	-0.14849

274 ->292	-0.14681
274 ->293	0.26385
277 ->293	0.12706

Excited State 66: Singlet-A 3.2062 eV 386.70 nm f=0.0185

273 ->290	-0.10184
273 ->292	0.17072
275 ->291	0.13814
281 ->289	-0.15519
281 ->290	0.14978
282 ->291	0.28021
283 ->289	0.12222
283 ->290	-0.10880
284 ->289	-0.12493
284 ->290	0.15192
284 ->292	0.13378
285 ->289	-0.16757
285 ->290	0.15545

Excited State 67: Singlet-A 3.2077 eV 386.52 nm f=0.0185

272 ->290	-0.12243
272 ->292	0.12749
272 ->293	0.12215
273 ->289	0.10891
273 ->290	-0.20553
273 ->291	0.17599
273 ->292	0.23327
273 ->293	0.11265
275 ->291	-0.11208
282 ->291	-0.24908
285 ->289	0.10990

Excited State 68: Singlet-A 3.2136 eV 385.81 nm f=0.0018

275 ->293	-0.10424
276 ->286	-0.13019
276 ->288	-0.12734
277 ->288	-0.11723
278 ->286	-0.15884
278 ->288	-0.10386
278 ->293	-0.11102
281 ->290	-0.11234
283 ->289	-0.13692
283 ->291	0.19518
283 ->292	-0.19174

283 ->293 0.17585
285 ->289 -0.11842
285 ->290 -0.11098

Excited State 69: Singlet-A 3.2181 eV 385.27 nm f=0.0150
272 ->292 -0.10259
275 ->292 0.12631
281 ->291 0.11167
282 ->291 -0.17341
282 ->292 0.20904
283 ->290 -0.13312
283 ->292 -0.12022
284 ->290 0.12355
284 ->291 -0.16235
284 ->292 0.23253

Excited State 70: Singlet-A 3.2246 eV 384.49 nm f=0.0059
270 ->286 -0.11056
271 ->286 0.20504
275 ->288 -0.13645
281 ->291 0.23687
281 ->292 -0.11464
282 ->288 0.13019
284 ->291 0.14168
285 ->291 0.31647
285 ->292 -0.13894

Excited State 71: Singlet-A 3.2318 eV 383.64 nm f=0.0128
270 ->286 -0.17029
271 ->286 0.17574
275 ->288 -0.10156
275 ->289 0.11389
278 ->286 0.12601
281 ->291 -0.19923
281 ->292 0.11658
283 ->291 0.25202
283 ->292 -0.13143
284 ->291 -0.11701
285 ->291 -0.22959

Excited State 72: Singlet-A 3.2385 eV 382.84 nm f=0.0033
270 ->287 0.16789
271 ->286 -0.16156
275 ->286 0.10219

275 ->288	0.19861
276 ->286	0.17290
276 ->290	-0.10785
277 ->286	0.15465
277 ->287	0.10059
278 ->286	0.22452
278 ->288	0.13156
278 ->290	-0.11232
279 ->286	0.10651
279 ->288	0.10357
282 ->288	-0.12779
285 ->291	0.15790

Excited State 73: Singlet-A 3.2472 eV 381.82 nm f=0.0008

272 ->290	-0.11034
274 ->290	-0.10288
275 ->288	-0.15864
276 ->286	0.10604
276 ->287	-0.15678
276 ->288	-0.12430
276 ->289	-0.12480
276 ->291	-0.10464
276 ->292	-0.10173
277 ->290	-0.10982
278 ->287	0.16101
278 ->288	0.19882
278 ->289	0.12925
280 ->288	0.10221
284 ->291	0.11434
285 ->292	0.15978

Excited State 74: Singlet-A 3.2503 eV 381.46 nm f=0.0070

279 ->286	0.41665
279 ->287	0.20162
279 ->288	0.35283
279 ->296	0.26831

Excited State 75: Singlet-A 3.2508 eV 381.39 nm f=0.0006

280 ->286	0.17150
280 ->288	0.63501

Excited State 76: Singlet-A 3.2538 eV 381.04 nm f=0.0028

270 ->287	0.15134
276 ->287	0.16153

276 ->290	0.13874
276 ->292	-0.10159
278 ->287	-0.19036
278 ->289	-0.11533
278 ->290	-0.11803
280 ->288	0.16724
284 ->292	0.19021
285 ->292	0.16652

Excited State 77: Singlet-A 3.2569 eV 380.68 nm f=0.0356

279 ->286	-0.15179
279 ->288	-0.24611
279 ->289	-0.13309
279 ->296	0.50414

Excited State 78: Singlet-A 3.2623 eV 380.05 nm f=0.0060

269 ->287	-0.10357
270 ->286	-0.13209
270 ->287	0.26447
271 ->287	0.14232
271 ->288	0.10355
272 ->288	0.10515
275 ->287	0.10030
275 ->288	0.17584
275 ->290	0.13455
275 ->291	0.10579
276 ->287	-0.16600
278 ->286	-0.12742
282 ->290	-0.11074
282 ->291	-0.11624

Excited State 79: Singlet-A 3.2653 eV 379.71 nm f=0.0035

270 ->287	-0.12910
275 ->288	0.15057
275 ->289	0.11987
275 ->290	0.11217
277 ->289	-0.12640
277 ->292	0.10548
277 ->293	-0.10779
278 ->287	0.10993
279 ->296	0.17505
280 ->287	0.21514
280 ->297	0.18462
285 ->293	0.22209

Excited State 80:	Singlet-A	3.2667 eV	379.54 nm	f=0.0057
280 ->286	-0.23292			
280 ->287	0.50971			
280 ->297	0.20790			
285 ->293	-0.11735			
Excited State 81:	Singlet-A	3.2727 eV	378.84 nm	f=0.0326
280 ->286	0.12711			
280 ->287	-0.26150			
280 ->297	0.54082			
284 ->311	-0.10361			
Excited State 82:	Singlet-A	3.2768 eV	378.37 nm	f=0.0009
279 ->286	-0.39773			
279 ->287	-0.13495			
279 ->288	0.50338			
279 ->290	0.15585			
279 ->291	0.10061			
Excited State 83:	Singlet-A	3.2809 eV	377.90 nm	f=0.0038
269 ->286	-0.12580			
270 ->287	-0.17385			
271 ->286	0.10234			
271 ->288	-0.14188			
275 ->288	0.17164			
275 ->289	-0.17691			
277 ->293	0.16551			
278 ->287	0.13232			
278 ->288	-0.11562			
278 ->293	0.13215			
281 ->286	-0.10031			
285 ->292	0.19373			
285 ->293	-0.11231			
Excited State 84:	Singlet-A	3.2951 eV	376.27 nm	f=0.0000
276 ->287	0.11440			
278 ->286	0.10173			
278 ->290	0.14553			
278 ->292	0.13204			
282 ->292	0.12242			
283 ->290	-0.19062			
283 ->291	0.20299			
283 ->292	0.30675			

283 ->293	0.20971
285 ->291	0.11120
285 ->292	0.18181
285 ->293	0.15121

Excited State 85: Singlet-A 3.2992 eV 375.80 nm f=0.0022

270 ->286	-0.13367
270 ->290	-0.12478
271 ->288	-0.17121
272 ->288	-0.12103
276 ->286	-0.11060
276 ->287	0.13086
276 ->288	-0.12643
276 ->289	-0.10099
276 ->292	-0.10801
277 ->289	-0.11801
277 ->290	-0.10373
278 ->287	-0.16986
278 ->289	0.10275
278 ->290	0.19865
283 ->292	-0.11539
283 ->293	-0.10863

Excited State 86: Singlet-A 3.3008 eV 375.62 nm f=0.0007

275 ->289	0.14191
276 ->287	0.16321
277 ->293	0.11956
283 ->292	-0.15073
284 ->289	0.14594
284 ->291	-0.12813
284 ->292	-0.14124
284 ->293	0.36634
285 ->293	-0.14610

Excited State 87: Singlet-A 3.3076 eV 374.85 nm f=0.0010

271 ->288	-0.11994
275 ->290	-0.11121
276 ->287	-0.18003
276 ->288	0.10551
277 ->288	0.13290
277 ->290	-0.10938
278 ->286	-0.16331
278 ->290	-0.20746
283 ->292	0.10260

284 ->291	-0.10597
284 ->292	-0.15884
284 ->293	0.35781

Excited State 88: Singlet-A 3.3113 eV 374.42 nm f=0.0007

268 ->289	0.13156
271 ->290	-0.10594
275 ->287	0.10236
275 ->289	-0.19831
275 ->293	0.10940
276 ->286	0.11241
276 ->290	0.17555
277 ->286	0.10088
277 ->290	0.15295
278 ->287	0.11683
278 ->288	-0.12760
278 ->290	0.11102
281 ->291	-0.12922
282 ->289	0.11226
284 ->292	-0.12726
284 ->293	0.27104
285 ->292	-0.10673

Excited State 89: Singlet-A 3.3119 eV 374.36 nm f=0.0008

268 ->289	-0.10025
269 ->287	-0.12014
270 ->287	0.12077
275 ->289	0.17957
275 ->290	-0.13417
275 ->291	-0.10211
276 ->286	0.10348
276 ->287	-0.12657
276 ->290	0.23306
277 ->292	0.10645
278 ->287	0.12189
278 ->288	-0.11382
278 ->289	-0.13210
281 ->291	0.15335
282 ->289	-0.11802
283 ->292	-0.10051

Excited State 90: Singlet-A 3.3290 eV 372.44 nm f=0.0012

270 ->292	0.11281
271 ->292	-0.14045

271 ->293	-0.12336
272 ->289	0.10150
275 ->290	0.12720
275 ->291	-0.18376
276 ->292	0.13699
277 ->291	-0.13699
277 ->292	-0.12832
278 ->291	0.10999
281 ->292	-0.11179
281 ->293	-0.11625
282 ->290	-0.11723
282 ->291	0.21314
282 ->292	0.22463
283 ->291	-0.11124
285 ->293	-0.13254

Excited State 91: Singlet-A 3.3334 eV 371.94 nm f=0.0001

280 ->287	-0.11392
280 ->288	0.10847
280 ->289	0.59101
280 ->290	0.28596
280 ->293	-0.15077

Excited State 92: Singlet-A 3.3396 eV 371.25 nm f=0.0001

270 ->291	-0.13518
271 ->290	-0.14590
275 ->292	0.14849
276 ->289	0.13034
276 ->292	-0.11279
276 ->293	-0.11172
277 ->288	-0.10416
277 ->289	0.13880
278 ->291	0.27578
282 ->292	-0.12694
283 ->291	-0.14031
283 ->292	0.12129
283 ->293	0.10978

Excited State 93: Singlet-A 3.3451 eV 370.65 nm f=0.0002

271 ->289	-0.13701
271 ->290	0.12451
275 ->291	0.11674
275 ->292	-0.15856
276 ->291	0.18106

277 ->289	0.12662
277 ->291	0.14411
277 ->292	-0.13809
278 ->289	0.18200
278 ->291	0.16579
278 ->293	-0.11967
282 ->293	0.17419
285 ->293	0.10904

Excited State 94: Singlet-A 3.3458 eV 370.56 nm f=0.0001

274 ->288	0.10492
279 ->287	0.13180
279 ->288	-0.11610
279 ->290	0.50101
282 ->293	-0.13071
283 ->293	0.12521

Excited State 95: Singlet-A 3.3468 eV 370.45 nm f=0.0004

268 ->291	0.11875
270 ->289	0.15716
271 ->289	0.11703
272 ->293	-0.12338
275 ->291	-0.14761
275 ->292	0.14839
275 ->293	-0.15486
279 ->290	0.24710
282 ->293	0.19437
283 ->293	-0.21161

Excited State 96: Singlet-A 3.3505 eV 370.05 nm f=0.0007

270 ->289	-0.13863
271 ->286	0.11715
275 ->290	-0.11931
275 ->291	-0.14399
275 ->293	0.10153
276 ->288	0.14275
276 ->289	-0.14648
276 ->291	0.17914
278 ->289	0.11377
278 ->291	-0.14023
278 ->292	0.10331
279 ->290	0.11153
282 ->293	-0.10155
283 ->293	0.15737

Excited State 97:	Singlet-A	3.3512 eV	369.97 nm	f=0.0002
271 ->286	0.10972			
271 ->289	-0.12130			
274 ->288	-0.26558			
274 ->290	-0.13813			
274 ->291	-0.11061			
275 ->292	-0.10450			
276 ->291	-0.17242			
277 ->288	-0.12763			
277 ->291	-0.12103			
278 ->289	-0.12183			
278 ->291	0.13429			
279 ->290	0.28807			

Excited State 98:	Singlet-A	3.3574 eV	369.28 nm	f=0.0005
273 ->288	0.12378			
274 ->288	0.27939			
276 ->291	-0.14409			
276 ->292	0.12317			
277 ->289	0.11554			
277 ->290	0.13589			
277 ->291	-0.11481			
277 ->293	0.12864			
278 ->288	0.10089			
281 ->289	0.10833			
282 ->292	-0.10414			

Excited State 99:	Singlet-A	3.3611 eV	368.88 nm	f=0.0001
280 ->287	-0.12218			
280 ->289	-0.19786			
280 ->290	0.47968			
280 ->291	0.12842			
280 ->292	0.33650			
280 ->293	0.19310			

Excited State 100:	Singlet-A	3.3642 eV	368.54 nm	f=0.0004
273 ->288	-0.18968			
277 ->293	-0.10093			
279 ->289	0.44544			
279 ->292	0.17432			
279 ->293	-0.34863			

Excited State 101:	Singlet-A	3.3657 eV	368.38 nm	f=0.0004

272 ->286	0.14352
272 ->289	-0.12299
272 ->290	-0.13234
273 ->288	0.33822
274 ->288	0.14513
276 ->291	-0.11712
277 ->291	0.13016
277 ->292	0.15373
277 ->293	-0.18305
280 ->290	-0.10776
281 ->293	-0.12533
282 ->292	0.11820

Excited State 102: Singlet-A 3.3668 eV 368.25 nm f=0.0002

272 ->288	0.15073
273 ->286	0.10853
273 ->288	0.22572
273 ->290	-0.12110
274 ->288	-0.14661
275 ->293	0.11430
276 ->289	-0.12780
276 ->290	0.10593
277 ->293	0.24975
278 ->291	-0.10777
279 ->289	0.21138
279 ->293	-0.16969
281 ->292	-0.10133

Excited State 103: Singlet-A 3.3701 eV 367.90 nm f=0.0014

269 ->288	-0.11192
273 ->288	-0.15615
275 ->292	0.10658
276 ->291	-0.13930
276 ->292	-0.13458
276 ->293	-0.12803
277 ->289	0.12355
277 ->290	-0.11500
277 ->291	0.11455
277 ->292	0.23977
277 ->293	0.12591
281 ->290	0.11355
281 ->291	-0.10281
281 ->292	-0.15811
281 ->293	-0.13626

282 ->291	0.10042			
282 ->292	0.19314			
282 ->293	0.13895			
Excited State 104:	Singlet-A	3.3734 eV	367.54 nm	f=0.0016
269 ->288	-0.12971			
270 ->288	0.14059			
272 ->288	0.30973			
272 ->290	0.11023			
273 ->290	-0.11757			
274 ->288	-0.23130			
277 ->293	-0.12228			
278 ->289	0.11771			
Excited State 105:	Singlet-A	3.3929 eV	365.42 nm	f=0.0037
269 ->287	0.10481			
269 ->288	0.32706			
269 ->289	0.11670			
269 ->290	0.12877			
271 ->287	0.15884			
272 ->287	0.13865			
275 ->290	-0.16400			
276 ->289	-0.10731			
276 ->290	-0.10467			
276 ->291	-0.10748			
277 ->291	0.16402			
Excited State 106:	Singlet-A	3.3990 eV	364.77 nm	f=0.0000
279 ->291	0.13675			
280 ->289	-0.10915			
280 ->291	0.58280			
280 ->292	-0.33354			
Excited State 107:	Singlet-A	3.3995 eV	364.71 nm	f=0.0000
279 ->291	0.57365			
279 ->292	-0.32535			
280 ->291	-0.14301			
Excited State 108:	Singlet-A	3.4059 eV	364.03 nm	f=0.0033
268 ->286	0.18377			
268 ->288	0.27210			
268 ->290	-0.18393			
269 ->286	0.19659			
269 ->288	0.20589			

269 ->290	-0.15497			
270 ->288	0.10079			
276 ->292	0.10591			
281 ->292	0.12505			
Excited State 109:	Singlet-A	3.4180 eV	362.73 nm	f=0.0048
270 ->294	0.21214			
272 ->294	-0.16912			
275 ->294	-0.20247			
276 ->294	0.10417			
277 ->294	0.22780			
278 ->294	0.27993			
281 ->294	-0.27721			
285 ->294	0.24523			
Excited State 110:	Singlet-A	3.4252 eV	361.98 nm	f=0.0013
269 ->287	0.10400			
269 ->289	-0.15543			
270 ->290	0.11602			
270 ->291	-0.14611			
270 ->292	-0.14902			
271 ->290	-0.10786			
271 ->291	0.11159			
271 ->292	0.19747			
271 ->293	0.14225			
272 ->287	0.13161			
275 ->291	-0.12350			
277 ->292	-0.12413			
278 ->291	0.10648			
278 ->292	0.22184			
281 ->292	-0.11057			
281 ->293	-0.12056			
Excited State 111:	Singlet-A	3.4302 eV	361.45 nm	f=0.0084
268 ->291	0.10566			
269 ->288	-0.18939			
271 ->287	0.19399			
271 ->289	-0.13783			
272 ->286	0.10348			
272 ->287	0.19630			
272 ->289	-0.10973			
273 ->287	-0.11851			
275 ->286	0.17888			
275 ->290	0.14260			

276 ->290	0.10030			
277 ->290	-0.11781			
281 ->293	0.15285			
Excited State 112:	Singlet-A	3.4349 eV	360.96 nm	f=0.0020
268 ->287	-0.10262			
269 ->287	0.19745			
269 ->289	-0.21709			
269 ->291	0.16985			
270 ->289	0.23622			
270 ->291	-0.13984			
270 ->293	0.17380			
275 ->287	0.15013			
276 ->293	-0.11350			
278 ->293	-0.19453			
281 ->292	0.13262			
281 ->293	-0.12072			
Excited State 113:	Singlet-A	3.4436 eV	360.04 nm	f=0.0153
271 ->288	-0.16265			
271 ->295	0.15161			
272 ->295	-0.10618			
274 ->288	0.10652			
274 ->295	-0.13562			
275 ->287	0.11160			
275 ->295	0.12107			
276 ->295	0.25195			
278 ->295	-0.24484			
281 ->295	-0.18300			
285 ->295	0.14460			
Excited State 114:	Singlet-A	3.4457 eV	359.83 nm	f=0.0030
269 ->287	0.11715			
270 ->293	-0.11691			
271 ->291	-0.11286			
271 ->292	0.11389			
274 ->286	-0.16539			
274 ->287	-0.10016			
274 ->289	0.31135			
274 ->290	0.17543			
274 ->291	-0.10077			
274 ->292	0.18344			
274 ->293	-0.19608			
278 ->293	0.11845			

Excited State 115:	Singlet-A	3.4519 eV	359.17 nm	f=0.0012
271 ->288	-0.16096			
271 ->289	0.10248			
271 ->290	0.10185			
272 ->286	0.17055			
273 ->286	-0.12173			
274 ->286	0.17392			
275 ->287	0.18315			
276 ->288	-0.10405			
276 ->295	-0.15132			
278 ->295	0.14694			
281 ->295	0.11456			

Excited State 116:	Singlet-A	3.4578 eV	358.56 nm	f=0.0008
268 ->289	-0.15820			
268 ->292	0.10821			
268 ->293	0.10379			
269 ->289	-0.15346			
269 ->291	-0.10284			
269 ->292	0.10289			
269 ->293	0.14726			
270 ->289	-0.10761			
270 ->292	0.15413			
271 ->292	-0.10551			
273 ->289	-0.13640			
273 ->290	0.11391			
273 ->292	0.14202			
273 ->293	0.12957			
275 ->292	0.16448			
277 ->292	-0.10116			

Excited State 117:	Singlet-A	3.4607 eV	358.27 nm	f=0.0009
269 ->286	-0.16235			
271 ->288	0.11556			
271 ->291	-0.14688			
272 ->286	-0.14863			
272 ->287	-0.15531			
272 ->290	0.15422			
272 ->291	-0.11505			
272 ->292	0.11501			
274 ->286	0.19173			
274 ->293	0.10752			
275 ->288	0.10179			

275 ->289	-0.16196			
275 ->291	-0.10074			
277 ->293	-0.11502			
Excited State 118:	Singlet-A	3.4642 eV	357.90 nm	f=0.0022
269 ->287	-0.12793			
269 ->291	-0.11943			
269 ->292	0.19065			
269 ->293	-0.13218			
270 ->292	-0.10353			
270 ->293	0.23253			
271 ->287	-0.12134			
271 ->290	0.13735			
273 ->292	0.10526			
274 ->286	-0.14186			
274 ->290	0.16282			
275 ->293	0.14680			
277 ->289	0.10629			
278 ->293	-0.10491			
282 ->293	-0.11275			
Excited State 119:	Singlet-A	3.4680 eV	357.51 nm	f=0.0009
271 ->286	0.12072			
271 ->288	0.18536			
272 ->286	0.11547			
272 ->287	-0.10208			
272 ->288	-0.16801			
272 ->289	0.21172			
272 ->293	-0.12558			
273 ->288	0.11092			
273 ->290	-0.12521			
273 ->292	-0.12675			
274 ->288	-0.20301			
274 ->289	-0.12269			
274 ->290	0.11038			
274 ->291	0.21599			
274 ->292	-0.13801			
274 ->293	0.16734			
Excited State 120:	Singlet-A	3.4721 eV	357.08 nm	f=0.0031
269 ->289	-0.12423			
270 ->288	0.10695			
271 ->286	-0.12982			
271 ->288	-0.10243			

271 ->289	-0.12237
272 ->287	-0.11366
272 ->288	0.17108
272 ->290	-0.12063
273 ->288	-0.10792
273 ->289	0.20618
273 ->292	-0.13384
273 ->293	-0.10339
274 ->286	-0.20011
274 ->287	-0.11299
274 ->289	-0.10641
274 ->290	0.13055
274 ->291	0.11967
275 ->286	-0.11203
277 ->291	0.12527

Excited State 121: Singlet-A 3.4736 eV 356.93 nm f=0.0010

268 ->289	-0.13647
269 ->287	0.11029
269 ->291	-0.14291
269 ->292	0.12427
272 ->289	0.13902
272 ->290	-0.15973
272 ->292	-0.19327
273 ->287	-0.17740
273 ->289	0.20781
273 ->290	-0.14866
273 ->292	-0.16108
273 ->293	-0.16423

Excited State 122: Singlet-A 3.4791 eV 356.37 nm f=0.0004

268 ->286	0.11955
268 ->287	-0.14981
269 ->286	-0.17996
269 ->287	0.26966
269 ->290	-0.18451
270 ->288	0.17917
271 ->287	0.10627
272 ->289	-0.13261
272 ->290	-0.11079
273 ->290	0.11216
275 ->286	-0.10218
275 ->287	0.11899
275 ->290	-0.19305

Excited State 123:	Singlet-A	3.4832 eV	355.95 nm	f=0.0005
277 ->292	0.13112			
278 ->292	0.11872			
279 ->290	-0.12487			
279 ->291	0.18495			
279 ->292	0.41528			
279 ->293	0.29536			

Excited State 124:	Singlet-A	3.4841 eV	355.86 nm	f=0.0013
269 ->291	0.10373			
271 ->288	0.14663			
271 ->291	0.11967			
272 ->287	-0.10775			
272 ->288	-0.10092			
272 ->289	-0.15013			
272 ->291	0.20449			
272 ->292	-0.10327			
273 ->291	-0.10645			
274 ->286	0.14023			
275 ->291	-0.12768			
277 ->291	0.15028			
279 ->292	0.19281			
279 ->293	0.14594			

Excited State 125:	Singlet-A	3.4890 eV	355.36 nm	f=0.0002
269 ->292	0.10423			
271 ->292	-0.10596			
276 ->291	0.12547			
276 ->292	0.25665			
277 ->290	-0.10906			
277 ->291	0.11257			
277 ->292	0.21742			
277 ->293	0.10851			
278 ->290	-0.10204			
278 ->292	0.21366			
278 ->293	0.24034			
279 ->291	-0.11634			
279 ->292	-0.24430			
279 ->293	-0.17922			

Excited State 126:	Singlet-A	3.4915 eV	355.11 nm	f=0.0001
276 ->293	-0.19784			
278 ->292	-0.11790			

280 ->289	0.11448			
280 ->291	-0.14061			
280 ->292	-0.23951			
280 ->293	0.54370			
Excited State 127:	Singlet-A	3.4930 eV	354.95 nm	f=0.0005
269 ->293	0.10331			
275 ->293	-0.13333			
276 ->289	0.13760			
276 ->292	-0.13025			
276 ->293	0.36956			
277 ->293	0.13693			
278 ->292	0.18759			
278 ->293	-0.23134			
280 ->292	-0.12669			
280 ->293	0.28591			
284 ->293	-0.10060			
Excited State 128:	Singlet-A	3.5082 eV	353.41 nm	f=0.0013
268 ->286	-0.15358			
269 ->287	-0.10937			
269 ->288	0.13627			
270 ->288	0.22471			
272 ->288	-0.19614			
272 ->290	-0.17271			
272 ->291	-0.19773			
273 ->287	-0.13615			
273 ->289	-0.13082			
274 ->291	-0.10309			
285 ->296	-0.11652			
Excited State 129:	Singlet-A	3.5118 eV	353.05 nm	f=0.0005
270 ->296	0.19407			
272 ->296	-0.15169			
273 ->287	-0.14988			
273 ->288	-0.12250			
273 ->289	-0.14713			
275 ->296	-0.17447			
277 ->296	0.18758			
278 ->296	0.22991			
281 ->296	-0.17849			
285 ->296	0.27454			
Excited State 130:	Singlet-A	3.5147 eV	352.76 nm	f=0.0014

270 ->288	0.21026
272 ->287	0.11456
272 ->289	0.11508
273 ->286	-0.11748
273 ->287	0.22901
273 ->288	0.21722
273 ->289	0.20221
273 ->290	0.16183
273 ->291	0.15886
278 ->296	0.11329
285 ->296	0.13631
285 ->298	0.10804

Excited State 131: Singlet-A 3.5166 eV 352.57 nm f=0.0025

271 ->297	0.16275
272 ->297	-0.10702
273 ->297	0.10351
274 ->297	-0.14163
275 ->297	0.12044
276 ->297	0.24464
278 ->297	-0.23387
281 ->297	-0.13342
281 ->298	0.12526
283 ->297	-0.11739
284 ->297	0.16102
284 ->300	0.15973
285 ->297	0.16015
285 ->298	-0.18765

Excited State 132: Singlet-A 3.5209 eV 352.14 nm f=0.0012

270 ->294	-0.17583
276 ->294	-0.18102
277 ->294	-0.11940
278 ->294	-0.22718
281 ->294	-0.25573
283 ->294	-0.31280
285 ->294	0.38519

Excited State 133: Singlet-A 3.5239 eV 351.83 nm f=0.0152

271 ->297	0.10906
276 ->297	0.16228
278 ->297	-0.15522
281 ->298	-0.26693
281 ->302	0.14298

283 ->298	-0.11023			
284 ->297	0.11146			
285 ->298	0.36041			
Excited State 134:	Singlet-A	3.5278 eV	351.45 nm	f=0.0026
268 ->286	-0.20550			
268 ->287	-0.10332			
268 ->288	0.30625			
268 ->289	-0.12299			
269 ->286	-0.24189			
269 ->288	0.10060			
269 ->290	-0.10481			
270 ->286	-0.10364			
270 ->288	-0.12375			
271 ->286	-0.15134			
275 ->286	0.18220			
275 ->287	0.10569			
Excited State 135:	Singlet-A	3.5414 eV	350.10 nm	f=0.0007
274 ->286	0.17428			
274 ->287	0.17186			
274 ->288	-0.11743			
274 ->289	-0.13672			
274 ->290	0.34266			
274 ->291	-0.13935			
274 ->292	0.21707			
274 ->293	0.11236			
284 ->300	0.17990			
285 ->295	0.11496			
Excited State 136:	Singlet-A	3.5434 eV	349.90 nm	f=0.0012
274 ->286	-0.12955			
274 ->290	-0.18747			
274 ->292	-0.10344			
281 ->295	-0.13264			
284 ->300	0.28564			
285 ->295	0.19796			
285 ->300	-0.16985			
285 ->301	-0.14905			
Excited State 137:	Singlet-A	3.5518 eV	349.08 nm	f=0.0007
278 ->299	0.12085			
283 ->298	0.20045			
283 ->299	0.22976			

285 ->295	-0.10392			
285 ->299	0.27682			
285 ->301	-0.13831			
285 ->302	0.16445			
Excited State 138:	Singlet-A	3.5543 eV	348.82 nm	f=0.0029
270 ->287	-0.10523			
271 ->287	0.20075			
271 ->289	-0.14087			
271 ->290	0.12407			
271 ->292	0.14624			
271 ->293	0.11457			
272 ->290	-0.12097			
274 ->286	0.12621			
283 ->300	0.12024			
284 ->301	0.13281			
285 ->300	-0.12310			
Excited State 139:	Singlet-A	3.5615 eV	348.12 nm	f=0.0002
276 ->300	-0.13458			
278 ->300	0.12081			
282 ->300	-0.11173			
283 ->300	0.18573			
284 ->298	0.15712			
284 ->300	-0.24663			
284 ->301	0.24951			
284 ->302	0.14484			
285 ->300	-0.19178			
Excited State 140:	Singlet-A	3.5653 eV	347.75 nm	f=0.0015
276 ->295	-0.13589			
278 ->295	0.12364			
281 ->295	-0.23383			
282 ->295	-0.20560			
283 ->300	-0.10020			
284 ->300	-0.18579			
285 ->295	0.37713			
285 ->299	0.11758			
285 ->300	0.13076			
Excited State 141:	Singlet-A	3.5689 eV	347.40 nm	f=0.0005
269 ->286	-0.19951			
270 ->286	0.26499			
270 ->287	0.13404			

270 ->288	0.16526
270 ->290	-0.11608
271 ->286	0.14561
271 ->290	-0.11633
272 ->287	-0.10201
272 ->290	0.13256
273 ->287	-0.21171
273 ->290	0.13456
274 ->289	0.11924
274 ->291	0.10788

Excited State 142: Singlet-A 3.5709 eV 347.21 nm f=0.0005

269 ->288	0.10075
270 ->286	-0.24295
270 ->290	0.13786
271 ->287	-0.10735
271 ->288	-0.12852
272 ->291	-0.10555
274 ->286	0.17919
274 ->287	0.13053
274 ->288	-0.11003
274 ->289	0.24033
274 ->291	0.29347
274 ->292	-0.12493

Excited State 143: Singlet-A 3.5727 eV 347.03 nm f=0.0002

270 ->287	-0.11091
272 ->286	0.12067
272 ->287	-0.13853
272 ->289	0.14167
272 ->290	0.14454
273 ->287	-0.28490
273 ->288	0.10907
273 ->289	0.16487
273 ->290	0.29375
273 ->291	-0.11242
273 ->292	0.18572
274 ->289	-0.10100
274 ->291	-0.15688

Excited State 144: Singlet-A 3.5763 eV 346.68 nm f=0.0007

282 ->299	-0.20130
282 ->301	-0.11782
283 ->299	-0.10220

284 ->294	0.56104			
Excited State 145:	Singlet-A	3.5767 eV	346.65 nm	f=0.0009
282 ->299	0.28259			
282 ->301	0.15948			
282 ->302	-0.13283			
283 ->299	0.14499			
283 ->301	0.11639			
284 ->294	0.40874			
285 ->299	-0.10760			
Excited State 146:	Singlet-A	3.5825 eV	346.08 nm	f=0.0003
269 ->287	-0.11787			
270 ->286	0.12092			
270 ->287	-0.12928			
270 ->289	-0.14072			
270 ->291	-0.11039			
271 ->287	0.27025			
271 ->288	0.13963			
271 ->289	0.24637			
271 ->291	0.10858			
272 ->289	-0.10879			
272 ->291	-0.10491			
273 ->289	0.17010			
274 ->286	0.12808			
274 ->288	-0.12687			
274 ->291	0.10166			
Excited State 147:	Singlet-A	3.5919 eV	345.17 nm	f=0.0010
268 ->286	0.25158			
268 ->287	0.10523			
268 ->288	0.10834			
269 ->286	-0.15634			
269 ->290	0.19896			
270 ->289	0.19436			
270 ->292	0.12623			
270 ->293	-0.16772			
272 ->286	0.11029			
272 ->289	-0.11473			
272 ->292	-0.10937			
272 ->293	0.10362			
273 ->290	0.10315			
Excited State 148:	Singlet-A	3.5993 eV	344.47 nm	f=0.0008

268 ->286	-0.20623
268 ->288	-0.10659
269 ->290	-0.10987
270 ->286	0.19563
270 ->289	0.15697
270 ->291	-0.12830
270 ->293	-0.14382
271 ->291	-0.10692
272 ->286	-0.11439
272 ->289	-0.11733
272 ->290	0.14087
272 ->291	0.21812
272 ->292	-0.11339

Excited State 149: Singlet-A 3.6065 eV 343.78 nm f=0.0012

273 ->291	0.13133
281 ->303	-0.10104
282 ->298	0.19299
282 ->299	0.10495
283 ->299	0.17561
283 ->301	-0.11275
283 ->302	-0.13352
284 ->300	0.20519
285 ->301	0.32222

Excited State 150: Singlet-A 3.6104 eV 343.41 nm f=0.0001

270 ->289	-0.10572
270 ->291	0.12175
272 ->291	0.18737
273 ->287	-0.14886
273 ->289	-0.21469
273 ->290	0.14755
273 ->291	0.43038
273 ->292	-0.17220
273 ->293	0.11274
285 ->301	-0.11204

Excited State 151: Singlet-A 3.6138 eV 343.09 nm f=0.0002

275 ->294	0.10659
276 ->294	0.19557
278 ->294	0.13965
281 ->294	0.31618
282 ->294	0.43005
283 ->294	-0.25838

285 ->294 0.21305

Excited State 152: Singlet-A 3.6188 eV 342.62 nm f=0.0052
275 ->301 0.12102
277 ->298 0.10580
281 ->298 0.13258
282 ->299 -0.12645
282 ->301 0.23814
283 ->299 -0.11437
283 ->301 -0.19560
283 ->302 -0.10475
283 ->303 0.10336
284 ->300 0.15935
285 ->298 0.11976
285 ->299 -0.11689
285 ->302 0.32014

Excited State 153: Singlet-A 3.6284 eV 341.70 nm f=0.0002
282 ->295 0.23071
283 ->295 0.57718
285 ->295 0.27695

Excited State 154: Singlet-A 3.6310 eV 341.46 nm f=0.0007
268 ->286 -0.15739
268 ->290 0.12321
269 ->287 0.15593
270 ->287 0.18607
270 ->288 -0.10512
271 ->286 0.12775
271 ->287 -0.20147
271 ->289 0.11099
271 ->290 0.24733
271 ->292 0.18466
272 ->290 -0.13110
273 ->290 0.13931
274 ->290 -0.11992

Excited State 155: Singlet-A 3.6323 eV 341.34 nm f=0.0054
268 ->286 -0.12483
268 ->287 0.25160
268 ->288 0.19489
268 ->289 0.11937
268 ->290 0.13866
269 ->288 0.10201

269 ->289	0.12973
269 ->290	0.13304
270 ->290	0.13298
271 ->287	0.12152
271 ->288	-0.11665
271 ->289	-0.10925
271 ->290	-0.15534
281 ->303	-0.10847
282 ->302	-0.11254
285 ->303	0.14592

Excited State 156: Singlet-A 3.6331 eV 341.26 nm f=0.0000

269 ->292	0.16022
270 ->292	0.13468
271 ->290	-0.18686
271 ->291	0.10867
271 ->292	0.18987
272 ->290	-0.10746
272 ->291	0.15514
272 ->292	0.26421
272 ->293	0.10710
273 ->292	-0.15560
274 ->292	0.10330
275 ->290	-0.12779
275 ->291	0.12233
275 ->292	0.18329
275 ->293	0.14736
277 ->292	-0.10394
277 ->293	-0.10110

Excited State 157: Singlet-A 3.6379 eV 340.82 nm f=0.0006

268 ->287	-0.14720
268 ->288	-0.13073
270 ->290	-0.17238
277 ->298	-0.12720
281 ->299	-0.10547
281 ->303	-0.18949
282 ->302	-0.15310
282 ->303	-0.11198
285 ->303	0.25023

Excited State 158: Singlet-A 3.6430 eV 340.34 nm f=0.0002

268 ->286	0.14623
268 ->288	-0.14714

268 ->289	-0.12511
269 ->286	-0.17639
269 ->287	-0.14917
269 ->290	-0.23957
269 ->292	-0.11700
270 ->286	0.20150
270 ->287	0.14150
270 ->288	-0.18986
270 ->290	0.31450

Excited State 159: Singlet-A 3.6472 eV 339.94 nm f=0.0008

270 ->296	-0.15082
276 ->296	-0.15532
277 ->296	-0.10506
278 ->296	-0.19291
281 ->296	-0.27534
283 ->296	-0.35880
285 ->296	0.39266

Excited State 160: Singlet-A 3.6503 eV 339.66 nm f=0.0001

268 ->292	-0.10552
271 ->289	0.12357
271 ->292	-0.11275
271 ->293	0.25510
272 ->289	0.10715
272 ->293	0.31878
273 ->293	-0.17144
274 ->293	0.16459
275 ->291	0.10813
275 ->292	0.13614
275 ->293	-0.17898
276 ->293	-0.11500

Excited State 161: Singlet-A 3.6563 eV 339.09 nm f=0.0011

268 ->289	-0.14104
268 ->292	0.15613
268 ->293	-0.11468
269 ->289	0.25607
269 ->292	-0.21727
269 ->293	0.29680
270 ->286	-0.10537
270 ->288	0.10252
270 ->290	-0.13514
271 ->293	0.15486

275 ->291	-0.10306			
275 ->293	0.21965			
Excited State 162:	Singlet-A	3.6677 eV	338.04 nm	f=0.0001
268 ->286	0.12867			
268 ->287	0.33124			
268 ->288	-0.11872			
268 ->290	0.15135			
268 ->293	0.13664			
269 ->286	-0.16703			
269 ->290	-0.25882			
269 ->291	0.12497			
269 ->293	-0.18634			
270 ->290	-0.14202			
272 ->286	0.11415			
272 ->290	0.14340			
Excited State 163:	Singlet-A	3.6686 eV	337.96 nm	f=0.0008
271 ->297	-0.11093			
276 ->297	-0.15466			
278 ->297	0.14164			
281 ->297	-0.30932			
282 ->297	-0.26431			
285 ->297	0.48519			
Excited State 164:	Singlet-A	3.6744 eV	337.42 nm	f=0.0001
275 ->295	0.11646			
277 ->295	-0.16432			
278 ->295	0.11061			
281 ->295	-0.41206			
282 ->295	0.47292			
285 ->295	-0.14109			
Excited State 165:	Singlet-A	3.6785 eV	337.05 nm	f=0.0001
270 ->289	0.15889			
270 ->291	-0.16676			
271 ->289	-0.17563			
271 ->291	0.40599			
271 ->292	-0.15202			
272 ->291	-0.11501			
273 ->291	0.16855			
274 ->291	-0.13926			
Excited State 166:	Singlet-A	3.6805 eV	336.87 nm	f=0.0001

269 ->288	0.10449
269 ->289	-0.10651
269 ->291	-0.19142
269 ->293	0.15990
270 ->288	-0.10766
270 ->289	0.25969
270 ->290	-0.11720
270 ->291	0.36364
270 ->292	-0.17894
270 ->293	-0.11601
271 ->289	0.10312

Excited State 167: Singlet-A 3.6831 eV 336.63 nm f=0.0002

272 ->294	-0.30011
273 ->294	0.15243
274 ->294	0.31424
276 ->294	-0.20669
277 ->294	0.28831
278 ->294	-0.20737
281 ->294	0.24787

Excited State 168: Singlet-A 3.6895 eV 336.05 nm f=0.0002

269 ->294	-0.10773
274 ->294	0.46341
275 ->294	0.35306
276 ->294	0.20885
277 ->294	0.11472
278 ->294	0.10749
281 ->294	-0.20839

Excited State 169: Singlet-A 3.6945 eV 335.59 nm f=0.0006

268 ->286	0.15629
268 ->287	-0.31174
268 ->289	0.19537
268 ->290	0.33646
268 ->292	0.20225
269 ->287	-0.13951
269 ->289	0.15749
275 ->290	0.12166

Excited State 170: Singlet-A 3.6984 eV 335.24 nm f=0.0000

284 ->296	0.69652

Excited State 171: Singlet-A 3.6989 eV 335.19 nm f=0.0001

268 ->286	-0.13985
268 ->288	0.12468
268 ->289	-0.24836
268 ->290	-0.11322
268 ->292	0.10153
268 ->293	0.17971
269 ->291	0.31521
270 ->291	0.19777
271 ->289	0.11776
272 ->291	-0.14799
275 ->289	-0.14930
275 ->291	-0.11772

Excited State 172: Singlet-A 3.7090 eV 334.28 nm f=0.0009

268 ->289	0.18778
268 ->290	-0.23407
268 ->291	0.10373
268 ->292	0.25720
269 ->290	-0.10439
269 ->292	0.29463
269 ->293	0.19631
271 ->292	0.12836
271 ->293	0.13419
275 ->292	-0.19835
275 ->293	-0.14352

Excited State 173: Singlet-A 3.7248 eV 332.86 nm f=0.0048

281 ->299	0.10599
281 ->309	-0.12096
281 ->310	0.13739
283 ->309	-0.22769
283 ->310	0.27554
285 ->299	-0.10672
285 ->305	-0.12291
285 ->308	0.10303
285 ->309	-0.20409
285 ->310	0.24014

Excited State 174: Singlet-A 3.7300 eV 332.40 nm f=0.0004

268 ->291	-0.24661
273 ->295	0.39191
276 ->298	-0.11777
277 ->295	-0.13375
278 ->295	0.12118

281 ->304	-0.10917			
285 ->304	0.12126			
Excited State 175:	Singlet-A	3.7325 eV	332.18 nm	f=0.0027
268 ->291	0.23494			
272 ->292	-0.10688			
272 ->293	-0.10815			
273 ->295	0.31117			
274 ->290	-0.13410			
274 ->291	0.11675			
274 ->292	0.29779			
274 ->293	0.16208			
277 ->295	-0.10078			
Excited State 176:	Singlet-A	3.7330 eV	332.13 nm	f=0.0002
281 ->297	0.10183			
282 ->297	0.24531			
283 ->297	0.57559			
285 ->297	0.26212			
Excited State 177:	Singlet-A	3.7339 eV	332.05 nm	f=0.0061
272 ->292	-0.13440			
273 ->295	-0.28851			
274 ->290	-0.13437			
274 ->291	0.17465			
274 ->292	0.32310			
274 ->293	0.21008			
278 ->298	0.10063			
281 ->304	-0.10305			
285 ->304	0.11314			
Excited State 178:	Singlet-A	3.7356 eV	331.90 nm	f=0.0075
268 ->289	-0.10768			
268 ->291	0.29125			
269 ->291	0.12198			
274 ->293	-0.10196			
276 ->303	-0.10687			
278 ->298	0.16778			
281 ->304	-0.17566			
285 ->299	-0.10338			
285 ->304	0.19364			
Excited State 179:	Singlet-A	3.7402 eV	331.49 nm	f=0.0002
276 ->296	0.18228			

278 ->296	0.13868			
281 ->296	0.35796			
282 ->296	0.43338			
283 ->296	-0.24174			
285 ->296	0.19144			
Excited State 180:	Singlet-A	3.7474 eV	330.85 nm	f=0.0000
280 ->294	0.70586			
Excited State 181:	Singlet-A	3.7480 eV	330.80 nm	f=0.0034
270 ->298	0.11679			
277 ->298	0.15565			
277 ->303	0.13498			
278 ->298	-0.13826			
278 ->302	0.10917			
281 ->299	0.12555			
281 ->305	0.24653			
283 ->305	0.11151			
283 ->310	-0.10438			
285 ->305	-0.24509			
Excited State 182:	Singlet-A	3.7508 eV	330.55 nm	f=0.0523
273 ->292	-0.13953			
273 ->295	0.11508			
282 ->300	0.14452			
283 ->300	-0.21536			
284 ->298	0.23657			
284 ->301	0.28119			
284 ->302	0.17102			
285 ->300	0.24926			
Excited State 183:	Singlet-A	3.7597 eV	329.77 nm	f=0.0171
272 ->292	-0.10975			
272 ->293	0.24518			
273 ->289	0.16677			
273 ->291	-0.12694			
273 ->292	-0.21761			
273 ->293	0.48729			
Excited State 184:	Singlet-A	3.7613 eV	329.63 nm	f=0.0396
272 ->293	0.10267			
272 ->295	-0.16166			
273 ->293	0.15678			
275 ->295	0.10835			

276 ->303	0.10193			
277 ->295	-0.15295			
277 ->298	-0.13913			
278 ->303	0.16894			
281 ->295	0.12434			
285 ->304	-0.11639			
Excited State 185:	Singlet-A	3.7685 eV	329.00 nm	f=0.0189
272 ->295	0.28034			
273 ->295	0.12678			
274 ->295	0.12694			
275 ->295	-0.21540			
277 ->295	0.26867			
277 ->303	-0.10457			
281 ->295	-0.21107			
285 ->299	-0.10771			
Excited State 186:	Singlet-A	3.7734 eV	328.57 nm	f=0.0052
268 ->291	0.11094			
271 ->298	0.10190			
272 ->295	0.11270			
276 ->298	-0.13476			
277 ->295	0.13483			
277 ->303	0.12453			
281 ->300	-0.14281			
281 ->306	-0.14473			
282 ->299	-0.12194			
283 ->298	-0.11014			
284 ->311	0.11423			
285 ->299	0.10335			
285 ->306	0.19115			
Excited State 187:	Singlet-A	3.7815 eV	327.87 nm	f=0.0001
277 ->297	-0.14776			
278 ->297	0.10239			
281 ->297	-0.43488			
282 ->297	0.46464			
285 ->297	-0.12957			
Excited State 188:	Singlet-A	3.7856 eV	327.52 nm	f=0.0113
277 ->294	0.20981			
277 ->303	-0.11549			
281 ->301	-0.10628			
282 ->298	-0.15726			

282 ->299	-0.13863			
282 ->311	-0.10437			
283 ->301	0.12181			
283 ->311	0.10691			
284 ->311	-0.17429			
285 ->299	0.16260			
285 ->301	0.10489			
285 ->306	-0.10364			
Excited State 189:	Singlet-A	3.7879 eV	327.32 nm	f=0.0017
272 ->294	0.13243			
274 ->294	-0.13801			
276 ->294	-0.10692			
277 ->294	0.32625			
281 ->311	0.13645			
282 ->311	0.18286			
283 ->311	-0.18609			
284 ->311	0.31466			
285 ->311	0.13100			
Excited State 190:	Singlet-A	3.7919 eV	326.97 nm	f=0.0040
272 ->294	0.14675			
274 ->294	-0.15332			
275 ->294	0.10908			
276 ->294	-0.11510			
277 ->294	0.35969			
277 ->303	0.12710			
281 ->306	-0.13855			
284 ->311	-0.16364			
285 ->306	0.15355			
Excited State 191:	Singlet-A	3.7973 eV	326.50 nm	f=0.0000
279 ->295	0.70555			
Excited State 192:	Singlet-A	3.8083 eV	325.56 nm	f=0.0004
269 ->293	-0.14731			
270 ->292	0.12198			
270 ->293	-0.23290			
271 ->289	0.14434			
271 ->291	-0.11104			
271 ->292	-0.21620			
271 ->293	0.42739			
273 ->293	0.12235			
274 ->293	-0.13907			

Excited State 193:	Singlet-A	3.8121 eV	325.24 nm	f=0.0000
270 ->294	-0.11406			
276 ->294	-0.44469			
277 ->294	-0.14500			
278 ->294	0.47543			

Excited State 194:	Singlet-A	3.8194 eV	324.62 nm	f=0.0002
269 ->292	-0.16010			
270 ->290	-0.12774			
270 ->291	0.14716			
270 ->292	0.30085			
270 ->293	0.21526			
271 ->292	0.11103			
272 ->296	-0.15765			
275 ->296	-0.15389			
276 ->296	-0.20213			
277 ->296	0.13255			
278 ->296	-0.16710			
281 ->296	0.19557			

Excited State 195:	Singlet-A	3.8201 eV	324.56 nm	f=0.0001
269 ->292	-0.13403			
269 ->293	-0.10056			
270 ->290	-0.11284			
270 ->291	0.13477			
270 ->292	0.28183			
270 ->293	0.17227			
272 ->296	0.19795			
273 ->296	-0.10481			
275 ->296	0.15644			
276 ->296	0.23103			
277 ->296	-0.18192			
278 ->296	0.19750			
281 ->296	-0.22217			

Excited State 196:	Singlet-A	3.8266 eV	324.01 nm	f=0.0036
272 ->299	-0.14506			
274 ->296	-0.19184			
274 ->298	0.12654			
274 ->299	0.25190			
277 ->296	-0.11653			
283 ->304	-0.11402			
285 ->304	-0.13210			

Excited State 197:	Singlet-A	3.8287 eV	323.83 nm	f=0.0030
272 ->300	-0.10822			
273 ->295	-0.11462			
273 ->300	-0.24410			
274 ->295	0.10706			
274 ->296	0.10869			
275 ->295	-0.18425			
276 ->295	0.33486			
277 ->295	-0.30199			
Excited State 198:	Singlet-A	3.8319 eV	323.55 nm	f=0.0017
272 ->300	0.14422			
273 ->300	0.34181			
275 ->295	-0.16641			
276 ->295	0.28419			
277 ->295	-0.20066			
284 ->306	0.11361			
284 ->308	-0.11145			
Excited State 199:	Singlet-A	3.8354 eV	323.26 nm	f=0.0007
274 ->296	0.45964			
275 ->296	0.26083			
276 ->296	0.10228			
277 ->296	0.22108			
Excited State 200:	Singlet-A	3.8433 eV	322.60 nm	f=0.0122
272 ->301	-0.11717			
273 ->302	-0.11330			
274 ->296	-0.11264			
274 ->298	-0.11377			
274 ->299	0.14678			
274 ->301	0.20821			
274 ->302	-0.17715			
282 ->304	-0.14636			
282 ->309	-0.13563			
285 ->304	0.12608			
Excited State 201:	Singlet-A	3.8439 eV	322.55 nm	f=0.0013
268 ->292	-0.11004			
273 ->298	0.13956			
273 ->301	0.22410			
273 ->302	0.14012			
274 ->299	0.15076			

278 ->295	-0.10795			
281 ->299	-0.11299			
Excited State 202:	Singlet-A	3.8482 eV	322.19 nm	f=0.0184
273 ->301	0.14528			
274 ->296	-0.10242			
274 ->299	-0.18394			
276 ->299	-0.10882			
277 ->298	-0.14135			
278 ->299	-0.11801			
281 ->299	0.21381			
285 ->309	0.11541			
Excited State 203:	Singlet-A	3.8497 eV	322.06 nm	f=0.0003
270 ->295	-0.10413			
276 ->295	0.26465			
277 ->295	0.30616			
278 ->295	0.50115			
Excited State 204:	Singlet-A	3.8535 eV	321.74 nm	f=0.0035
268 ->290	-0.12027			
268 ->291	0.17842			
268 ->292	0.28112			
268 ->293	0.13443			
269 ->292	-0.16848			
269 ->293	-0.13867			
272 ->292	0.11963			
273 ->297	-0.11579			
276 ->298	-0.11448			
281 ->300	0.14609			
Excited State 205:	Singlet-A	3.8581 eV	321.36 nm	f=0.0019
268 ->292	-0.18040			
269 ->292	0.10553			
273 ->297	-0.21337			
273 ->301	-0.10375			
275 ->300	-0.11183			
277 ->297	0.14767			
277 ->300	0.10341			
278 ->297	-0.11076			
281 ->300	0.23937			
282 ->300	0.14231			
Excited State 206:	Singlet-A	3.8607 eV	321.15 nm	f=0.0008

273 ->297	0.42406			
275 ->297	0.12598			
276 ->298	-0.10152			
277 ->297	-0.25663			
278 ->297	0.17794			
281 ->297	0.15462			
281 ->300	0.18116			
Excited State 207:	Singlet-A	3.8667 eV	320.65 nm	f=0.0265
276 ->298	-0.14383			
279 ->310	0.12320			
281 ->302	-0.11122			
281 ->310	-0.10914			
282 ->309	-0.18814			
282 ->310	0.19245			
283 ->310	0.10572			
283 ->312	0.10253			
285 ->312	0.11896			
Excited State 208:	Singlet-A	3.8689 eV	320.46 nm	f=0.0000
280 ->296	0.70688			
Excited State 209:	Singlet-A	3.8713 eV	320.27 nm	f=0.0019
279 ->309	-0.14413			
279 ->310	0.18371			
281 ->299	0.13760			
281 ->301	0.12264			
281 ->303	-0.10214			
281 ->304	-0.12881			
282 ->310	0.13282			
283 ->312	0.10829			
285 ->304	0.10540			
285 ->312	0.12465			
Excited State 210:	Singlet-A	3.8764 eV	319.84 nm	f=0.0014
270 ->294	0.20227			
275 ->294	0.19675			
276 ->294	-0.15973			
279 ->309	0.14476			
279 ->310	-0.17686			
281 ->301	0.10900			
282 ->310	0.14853			
283 ->312	-0.12077			
285 ->314	0.11214			

Excited State 211:	Singlet-A	3.8809 eV	319.47 nm	f=0.0044
268 ->293	0.17264			
277 ->298	0.11266			
278 ->299	-0.13741			
278 ->305	-0.13486			
279 ->310	-0.10537			
281 ->302	0.13414			
281 ->307	0.13070			
284 ->311	-0.12360			
285 ->307	-0.12586			

Excited State 212:	Singlet-A	3.8836 eV	319.25 nm	f=0.0302
268 ->293	0.13471			
276 ->300	-0.10129			
277 ->299	-0.10537			
277 ->300	-0.11462			
278 ->300	0.13580			
278 ->305	0.10716			
281 ->301	0.10368			
282 ->311	0.11240			
283 ->311	-0.11481			
284 ->311	-0.14160			
285 ->311	0.13412			

Excited State 213:	Singlet-A	3.8838 eV	319.23 nm	f=0.0049
268 ->289	0.17304			
268 ->291	-0.10676			
268 ->292	-0.19254			
268 ->293	0.44607			
269 ->293	0.15568			

Excited State 214:	Singlet-A	3.8937 eV	318.42 nm	f=0.0010
272 ->297	0.36042			
273 ->297	0.33967			
274 ->297	0.11556			
275 ->297	-0.19674			
277 ->297	0.30219			
281 ->297	-0.19414			

Excited State 215:	Singlet-A	3.8984 eV	318.04 nm	f=0.0022
267 ->294	-0.10246			
269 ->294	-0.10662			
270 ->294	0.26146			

275 ->294	0.14001			
276 ->294	-0.11810			
277 ->304	-0.12394			
277 ->306	0.11867			
278 ->304	-0.13535			
278 ->306	0.13527			
283 ->304	-0.10496			
Excited State 216:	Singlet-A	3.9012 eV	317.81 nm	f=0.0000
279 ->297	0.69963			
Excited State 217:	Singlet-A	3.9030 eV	317.66 nm	f=0.0252
270 ->294	0.19243			
276 ->300	-0.11726			
277 ->299	0.14613			
277 ->304	0.12809			
278 ->304	0.11663			
278 ->305	-0.12040			
279 ->310	0.10948			
Excited State 218:	Singlet-A	3.9054 eV	317.47 nm	f=0.0003
271 ->304	-0.12134			
276 ->304	0.20158			
277 ->306	-0.10791			
278 ->299	0.10530			
278 ->300	-0.14885			
278 ->308	-0.10547			
281 ->300	-0.14061			
282 ->304	0.10451			
Excited State 219:	Singlet-A	3.9107 eV	317.04 nm	f=0.0025
275 ->295	-0.10427			
276 ->299	-0.12712			
278 ->306	-0.11156			
280 ->300	-0.16626			
280 ->311	0.18241			
281 ->299	-0.12294			
281 ->301	-0.12847			
Excited State 220:	Singlet-A	3.9145 eV	316.73 nm	f=0.0143
275 ->295	-0.10236			
277 ->299	0.10232			
277 ->305	0.10850			
277 ->306	0.11133			

278 ->306	0.11184
280 ->300	-0.10328
280 ->301	0.12920
280 ->311	0.22995
281 ->302	-0.10132
282 ->311	0.11737
282 ->313	0.10002
283 ->311	-0.11439
284 ->311	-0.15151
284 ->313	0.13848
285 ->311	0.12784

Excited State 221: Singlet-A 3.9202 eV 316.27 nm f=0.0001

270 ->296	-0.10871
271 ->296	-0.10119
272 ->296	0.24183
273 ->296	-0.10084
274 ->296	-0.26042
275 ->296	0.16079
276 ->296	-0.17410
277 ->296	0.49941

Excited State 222: Singlet-A 3.9230 eV 316.05 nm f=0.0025

276 ->299	-0.10084
276 ->305	-0.12137
280 ->300	0.23038
284 ->299	-0.10580
284 ->305	-0.12659
284 ->313	-0.11600
285 ->304	0.11297
285 ->306	-0.13350

Excited State 223: Singlet-A 3.9297 eV 315.51 nm f=0.0011

276 ->300	0.10872
276 ->303	0.15256
276 ->304	0.13606
277 ->298	-0.10409
277 ->304	0.12547
278 ->304	-0.14468
278 ->308	-0.12293
280 ->300	0.14089
281 ->305	0.10795
284 ->304	0.14000
285 ->305	-0.13039

Excited State 224:	Singlet-A	3.9314 eV	315.37 nm	f=0.0071
266 ->295	-0.12433			
269 ->295	-0.10553			
270 ->295	-0.13792			
271 ->295	0.24844			
275 ->295	-0.13485			
276 ->295	-0.12832			
277 ->295	-0.11055			
280 ->301	-0.12381			
280 ->311	-0.12512			
281 ->301	0.11121			
285 ->313	-0.10401			

Excited State 225:	Singlet-A	3.9340 eV	315.16 nm	f=0.0032
274 ->299	0.11393			
276 ->296	-0.10053			
276 ->304	0.11108			
277 ->296	-0.10846			
278 ->296	0.11838			
278 ->304	0.14881			
281 ->301	-0.12188			
282 ->304	0.13362			
282 ->310	0.14332			
283 ->304	0.15127			
283 ->314	0.12645			

Excited State 226:	Singlet-A	3.9367 eV	314.95 nm	f=0.0002
270 ->296	-0.10019			
276 ->296	-0.43749			
277 ->296	-0.12484			
278 ->296	0.45115			

Excited State 227:	Singlet-A	3.9397 eV	314.70 nm	f=0.0033
271 ->295	0.13143			
275 ->295	-0.12561			
280 ->298	0.15908			
280 ->300	0.35926			
280 ->301	0.19170			
280 ->302	0.15161			
280 ->311	0.12739			
280 ->315	0.17999			
284 ->311	0.10053			

Excited State 228:	Singlet-A	3.9425 eV	314.48 nm	f=0.0006
272 ->297	0.10896			
274 ->297	0.14964			
275 ->297	-0.26226			
276 ->297	0.45998			
277 ->297	-0.30955			
Excited State 229:	Singlet-A	3.9440 eV	314.36 nm	f=0.0035
270 ->295	-0.11016			
271 ->295	0.19348			
275 ->295	-0.11542			
280 ->300	0.13955			
280 ->311	-0.11062			
281 ->301	-0.18063			
282 ->298	-0.16337			
283 ->298	0.18207			
Excited State 230:	Singlet-A	3.9445 eV	314.32 nm	f=0.0006
270 ->294	0.12265			
275 ->294	0.13497			
276 ->296	-0.10072			
279 ->299	0.18499			
279 ->312	0.21088			
281 ->298	-0.10549			
281 ->299	0.13063			
281 ->301	0.11043			
281 ->302	-0.13969			
282 ->312	0.17956			
283 ->312	0.24886			
285 ->312	0.10464			
Excited State 231:	Singlet-A	3.9492 eV	313.95 nm	f=0.0023
276 ->297	-0.12898			
281 ->298	-0.12073			
281 ->300	-0.12437			
281 ->301	0.16149			
281 ->305	0.13168			
282 ->304	0.10593			
282 ->309	0.10455			
284 ->307	-0.10727			
284 ->313	-0.10603			
285 ->306	-0.10494			
Excited State 232:	Singlet-A	3.9562 eV	313.39 nm	f=0.0005

270 ->297	-0.10153			
276 ->297	0.24512			
277 ->297	0.33202			
278 ->297	0.50817			
Excited State 233:	Singlet-A	3.9604 eV	313.06 nm	f=0.0084
276 ->299	0.10234			
277 ->306	0.10775			
278 ->298	0.11042			
278 ->299	0.11359			
279 ->299	0.14377			
281 ->298	0.11955			
281 ->302	0.13561			
281 ->303	0.10318			
282 ->309	-0.13800			
283 ->299	-0.12848			
285 ->302	-0.10742			
Excited State 234:	Singlet-A	3.9701 eV	312.30 nm	f=0.0022
277 ->298	-0.12065			
277 ->301	0.10179			
277 ->306	-0.14810			
281 ->302	0.10388			
283 ->304	-0.11735			
284 ->298	0.14333			
284 ->313	0.16253			
285 ->306	-0.14804			
Excited State 235:	Singlet-A	3.9765 eV	311.79 nm	f=0.0022
278 ->299	-0.10474			
278 ->301	0.10174			
278 ->302	-0.10884			
279 ->299	0.36295			
282 ->314	-0.10823			
283 ->312	-0.12643			
Excited State 236:	Singlet-A	3.9770 eV	311.75 nm	f=0.0135
277 ->301	-0.11162			
280 ->300	0.11403			
280 ->301	-0.10846			
281 ->298	-0.11547			
283 ->298	0.11694			
284 ->298	0.19364			
284 ->302	-0.10362			

284 ->313	0.25165			
285 ->306	0.10804			
Excited State 237:	Singlet-A	3.9785 eV	311.64 nm	f=0.0009
273 ->301	-0.10511			
276 ->306	-0.12299			
277 ->304	0.10718			
277 ->305	-0.10056			
277 ->306	0.16147			
280 ->301	0.11394			
284 ->313	0.16678			
Excited State 238:	Singlet-A	3.9823 eV	311.34 nm	f=0.0015
273 ->300	-0.12455			
275 ->298	0.11830			
276 ->301	-0.12887			
277 ->304	0.10921			
278 ->302	0.10682			
281 ->298	0.10770			
283 ->298	-0.10908			
284 ->306	0.15016			
284 ->307	-0.12227			
284 ->308	-0.10559			
284 ->313	0.13838			
Excited State 239:	Singlet-A	3.9874 eV	310.94 nm	f=0.0102
265 ->286	0.10355			
278 ->298	-0.11618			
280 ->298	-0.12538			
280 ->300	0.12902			
280 ->301	-0.16098			
281 ->300	-0.10391			
282 ->306	0.11762			
284 ->313	0.16686			
Excited State 240:	Singlet-A	3.9903 eV	310.71 nm	f=0.0045
276 ->298	-0.12695			
276 ->302	-0.14585			
278 ->301	0.23690			
279 ->299	-0.21732			
283 ->298	0.15536			
284 ->298	0.15488			
284 ->313	-0.16791			

Excited State 241:	Singlet-A	3.9931 eV	310.49 nm	f=0.0161
276 ->301	-0.12991			
277 ->305	-0.12940			
278 ->302	0.11315			
279 ->299	0.20064			
284 ->298	0.15578			
284 ->313	-0.11873			
285 ->307	-0.12729			

Excited State 242:	Singlet-A	3.9995 eV	310.00 nm	f=0.0150
275 ->294	-0.12638			
276 ->299	0.10052			
276 ->304	-0.10040			
278 ->299	0.14026			
279 ->299	0.10755			
279 ->310	-0.10549			
279 ->312	0.16566			
279 ->314	-0.16246			
282 ->312	0.10355			
282 ->314	0.12872			
283 ->299	-0.11748			
283 ->314	0.12601			

Excited State 243:	Singlet-A	4.0012 eV	309.87 nm	f=0.0068
271 ->294	0.10513			
272 ->294	0.24334			
273 ->294	-0.16274			
274 ->294	0.18693			
275 ->294	-0.24409			
276 ->301	0.10601			
277 ->305	0.11940			
279 ->299	0.11658			
284 ->298	-0.10301			

Excited State 244:	Singlet-A	4.0041 eV	309.64 nm	f=0.0192
275 ->298	0.10109			
281 ->301	-0.11631			
281 ->304	-0.11127			
282 ->298	0.19151			
282 ->302	-0.16453			
282 ->304	0.10841			
282 ->310	0.12221			
283 ->298	-0.16105			
283 ->299	-0.12312			

283 ->302	0.10115			
285 ->308	0.13649			
Excited State 245:	Singlet-A	4.0050 eV	309.57 nm	f=0.0012
273 ->300	-0.11646			
276 ->300	-0.16975			
276 ->301	0.12272			
278 ->300	0.13733			
278 ->301	-0.15000			
280 ->311	0.13915			
284 ->300	0.17084			
284 ->311	0.10669			
Excited State 246:	Singlet-A	4.0095 eV	309.22 nm	f=0.0021
270 ->294	0.12330			
271 ->294	0.13500			
272 ->294	0.21078			
273 ->294	-0.17100			
274 ->294	0.14094			
275 ->294	-0.17012			
279 ->298	-0.18900			
279 ->301	0.17224			
279 ->302	-0.13769			
279 ->314	0.12215			
282 ->314	-0.11983			
283 ->314	-0.15027			
Excited State 247:	Singlet-A	4.0119 eV	309.04 nm	f=0.0273
276 ->305	0.11429			
277 ->305	-0.11541			
281 ->307	0.12719			
282 ->298	0.22556			
282 ->302	-0.12263			
282 ->305	0.10420			
283 ->298	0.14741			
285 ->307	-0.15979			
Excited State 248:	Singlet-A	4.0163 eV	308.70 nm	f=0.0074
265 ->286	0.21250			
273 ->300	-0.13509			
280 ->298	0.14873			
280 ->300	-0.17654			
280 ->301	0.19216			
280 ->302	0.10147			

280 ->311	-0.16945			
284 ->298	-0.14858			
284 ->315	0.19751			
Excited State 249:	Singlet-A	4.0223 eV	308.24 nm	f=0.0044
256 ->286	0.13607			
259 ->287	-0.12943			
264 ->287	-0.11848			
265 ->286	-0.15262			
266 ->286	0.21601			
267 ->287	0.24801			
282 ->298	-0.11781			
Excited State 250:	Singlet-A	4.0273 eV	307.86 nm	f=0.0045
256 ->287	-0.13323			
259 ->286	0.11711			
265 ->286	0.13615			
266 ->286	-0.10027			
266 ->287	-0.19713			
267 ->286	-0.18318			
267 ->287	0.22090			
283 ->298	-0.10603			
Excited State 251:	Singlet-A	4.0290 eV	307.73 nm	f=0.0050
270 ->296	-0.24331			
275 ->296	-0.20552			
276 ->296	0.11882			
279 ->298	-0.26034			
279 ->301	0.26545			
279 ->302	-0.19574			
279 ->310	0.10132			
283 ->298	0.10891			
Excited State 252:	Singlet-A	4.0320 eV	307.50 nm	f=0.0059
275 ->295	-0.10266			
279 ->312	-0.11022			
281 ->298	0.22081			
281 ->302	-0.19507			
283 ->301	0.13454			
285 ->298	0.33899			
Excited State 253:	Singlet-A	4.0335 eV	307.39 nm	f=0.0029
258 ->286	0.16089			
260 ->286	-0.12621			

265 ->286	0.35282			
265 ->287	0.16978			
266 ->286	0.22244			
267 ->286	0.13913			
Excited State 254:	Singlet-A	4.0371 eV	307.11 nm	f=0.0013
264 ->286	-0.12707			
264 ->287	0.28576			
267 ->287	0.12055			
270 ->296	0.12101			
279 ->310	-0.12663			
279 ->312	0.13466			
279 ->314	-0.16170			
282 ->312	-0.16124			
283 ->314	-0.14276			
Excited State 255:	Singlet-A	4.0374 eV	307.09 nm	f=0.0244
267 ->287	-0.10188			
270 ->296	-0.19410			
275 ->296	-0.14528			
279 ->299	-0.13095			
279 ->312	0.26083			
282 ->298	-0.15776			
282 ->302	0.12303			
Excited State 256:	Singlet-A	4.0401 eV	306.88 nm	f=0.0002
266 ->286	-0.16098			
271 ->295	0.14863			
271 ->297	-0.10267			
272 ->295	0.21175			
273 ->295	-0.11506			
275 ->295	0.23691			
280 ->311	-0.10199			
280 ->315	-0.10378			
284 ->298	0.10964			
284 ->315	-0.16099			
285 ->298	0.12544			
Excited State 257:	Singlet-A	4.0425 eV	306.70 nm	f=0.0033
264 ->286	-0.14760			
264 ->287	0.32370			
279 ->312	-0.15306			
279 ->314	0.13744			
281 ->312	-0.10828			

282 ->312	0.16681			
283 ->314	0.11862			
285 ->298	-0.10550			
Excited State 258:	Singlet-A	4.0457 eV	306.46 nm	f=0.0007
271 ->295	0.21296			
271 ->297	0.17754			
272 ->295	0.29841			
273 ->295	-0.15185			
274 ->295	0.12382			
275 ->295	0.25180			
275 ->297	-0.13802			
280 ->311	0.12630			
284 ->315	0.13626			
Excited State 259:	Singlet-A	4.0465 eV	306.40 nm	f=0.0050
267 ->287	-0.11580			
267 ->294	-0.13506			
269 ->294	-0.12626			
270 ->296	0.22007			
271 ->294	-0.12165			
273 ->294	0.21975			
275 ->296	0.13165			
279 ->298	-0.10551			
279 ->299	0.17297			
279 ->301	0.14700			
279 ->302	-0.10238			
279 ->312	-0.11323			
279 ->314	-0.15664			
282 ->314	0.13694			
Excited State 260:	Singlet-A	4.0510 eV	306.06 nm	f=0.0004
272 ->294	0.36427			
273 ->294	0.55914			
Excited State 261:	Singlet-A	4.0513 eV	306.04 nm	f=0.0270
271 ->297	0.17359			
275 ->297	-0.13094			
276 ->307	-0.12112			
277 ->304	-0.10546			
284 ->299	0.27766			
Excited State 262:	Singlet-A	4.0539 eV	305.84 nm	f=0.0014
271 ->297	0.15234			

275 ->297	-0.12284			
276 ->303	-0.10803			
278 ->302	-0.13192			
282 ->301	-0.12294			
283 ->298	-0.19630			
284 ->298	0.23704			
284 ->299	-0.14125			
284 ->301	-0.18857			
Excited State 263:	Singlet-A	4.0622 eV	305.21 nm	f=0.0112
271 ->297	0.13829			
275 ->297	-0.10812			
277 ->299	0.17854			
277 ->304	0.15992			
277 ->307	0.12795			
280 ->313	-0.12220			
283 ->299	0.10590			
284 ->315	-0.10150			
Excited State 264:	Singlet-A	4.0678 eV	304.79 nm	f=0.0027
271 ->297	-0.14671			
275 ->297	0.10127			
280 ->300	-0.12048			
280 ->313	0.19673			
280 ->315	0.16026			
284 ->299	0.12752			
284 ->315	0.25940			
Excited State 265:	Singlet-A	4.0731 eV	304.40 nm	f=0.0030
267 ->294	0.10242			
269 ->294	0.40204			
271 ->294	0.35411			
275 ->294	0.13402			
279 ->314	-0.12924			
281 ->314	-0.10629			
282 ->314	0.15913			
Excited State 266:	Singlet-A	4.0802 eV	303.86 nm	f=0.0261
272 ->300	-0.10750			
274 ->295	-0.10869			
276 ->300	0.14633			
277 ->300	-0.13735			
280 ->313	-0.12768			
280 ->315	0.10787			

281 ->299	0.11236			
282 ->299	0.17256			
282 ->300	0.10422			
282 ->303	0.11135			
283 ->299	-0.12506			
284 ->299	-0.12800			
285 ->299	0.17301			
285 ->300	-0.16502			
Excited State 267:	Singlet-A	4.0832 eV	303.64 nm	f=0.0015
271 ->295	0.12835			
272 ->295	-0.26102			
273 ->295	0.10737			
274 ->295	0.55976			
Excited State 268:	Singlet-A	4.0839 eV	303.59 nm	f=0.0012
263 ->288	0.10827			
267 ->296	0.12918			
272 ->295	0.11157			
274 ->295	-0.18319			
275 ->296	0.15377			
279 ->309	-0.10247			
279 ->312	0.19810			
282 ->312	0.12703			
284 ->299	-0.11178			
285 ->299	-0.14224			
285 ->312	-0.12342			
Excited State 269:	Singlet-A	4.0862 eV	303.42 nm	f=0.0027
266 ->295	-0.11725			
280 ->298	0.13207			
280 ->300	0.16179			
280 ->313	0.31286			
280 ->315	-0.31142			
Excited State 270:	Singlet-A	4.0896 eV	303.17 nm	f=0.0074
263 ->288	0.16551			
267 ->296	-0.13735			
275 ->296	-0.15616			
279 ->309	0.11908			
279 ->312	-0.16128			
282 ->299	-0.13843			
282 ->303	-0.12437			
283 ->299	0.10166			

285 ->299	-0.15975			
285 ->300	-0.11332			
285 ->312	0.10768			
Excited State 271:	Singlet-A	4.0941 eV	302.84 nm	f=0.0047
263 ->288	0.13238			
265 ->288	0.10012			
275 ->300	-0.14005			
283 ->300	0.11961			
284 ->299	-0.14188			
285 ->300	0.19364			
285 ->301	0.15387			
Excited State 272:	Singlet-A	4.0993 eV	302.45 nm	f=0.0009
261 ->288	-0.12347			
263 ->288	0.22187			
265 ->288	0.13679			
276 ->305	-0.10533			
278 ->305	0.10135			
283 ->299	-0.10590			
283 ->300	-0.12498			
284 ->299	0.36815			
Excited State 273:	Singlet-A	4.1046 eV	302.06 nm	f=0.0084
272 ->301	0.14810			
273 ->301	-0.10065			
275 ->298	-0.16011			
277 ->302	0.10335			
280 ->311	0.10558			
283 ->300	-0.14019			
284 ->301	0.13450			
285 ->300	-0.11976			
285 ->301	0.25288			
285 ->314	0.10361			
Excited State 274:	Singlet-A	4.1053 eV	302.01 nm	f=0.0070
275 ->297	0.12396			
282 ->300	0.12390			
283 ->300	0.31699			
283 ->303	0.12462			
285 ->300	0.19061			
Excited State 275:	Singlet-A	4.1088 eV	301.75 nm	f=0.0016
266 ->297	-0.14315			

275 ->297	0.14891
275 ->301	-0.12026
280 ->311	0.16313
281 ->299	0.13331
282 ->299	0.12447
282 ->313	-0.11320
283 ->299	-0.12440
283 ->313	0.10862
284 ->301	0.11602
285 ->299	0.14362
285 ->302	0.17036

Excited State 276: Singlet-A 4.1119 eV 301.52 nm f=0.0005

267 ->294	-0.20216
269 ->294	-0.17190
270 ->294	-0.26186
271 ->294	0.43105
272 ->294	-0.10832
274 ->294	-0.12163
282 ->314	-0.11261

Excited State 277: Singlet-A 4.1137 eV 301.39 nm f=0.0070

275 ->298	-0.10542
275 ->300	0.11975
278 ->298	0.11003
282 ->300	0.12646
282 ->312	0.10168
283 ->300	0.10635
283 ->314	-0.10348
284 ->301	0.12640
285 ->301	0.11928
285 ->314	-0.10871

Excited State 278: Singlet-A 4.1176 eV 301.11 nm f=0.0059

266 ->297	0.10602
275 ->297	-0.11582
280 ->313	0.10562
283 ->299	0.11242
283 ->303	0.10067
284 ->301	0.13467
284 ->302	-0.12483
284 ->303	0.15207
285 ->301	-0.12949

Excited State 279:	Singlet-A	4.1211 eV	300.85 nm	f=0.0020
266 ->295	-0.10780			
269 ->294	-0.16737			
271 ->294	0.13061			
282 ->303	-0.15637			
283 ->300	0.24081			
283 ->303	-0.18745			
285 ->300	0.13210			

Excited State 280:	Singlet-A	4.1253 eV	300.54 nm	f=0.0044
266 ->295	0.30816			
267 ->295	0.15068			
268 ->295	0.14596			
269 ->295	0.20118			
270 ->295	0.10667			
271 ->295	0.20638			
280 ->313	0.14283			
284 ->313	0.11847			
284 ->315	-0.10959			

Excited State 281:	Singlet-A	4.1279 eV	300.36 nm	f=0.0004
263 ->290	-0.10055			
274 ->304	0.10970			
282 ->300	0.12179			
283 ->301	-0.12318			
283 ->303	-0.15551			
284 ->301	-0.14624			
284 ->302	0.23953			
284 ->303	-0.23245			

Excited State 282:	Singlet-A	4.1294 eV	300.25 nm	f=0.0023
259 ->288	-0.14617			
263 ->290	0.12872			
264 ->288	-0.10131			
267 ->294	-0.10182			
269 ->294	0.14949			
274 ->304	0.15713			
274 ->306	0.11456			
274 ->309	0.15812			
274 ->310	0.12590			
282 ->303	0.13462			

Excited State 283:	Singlet-A	4.1323 eV	300.04 nm	f=0.0030
267 ->294	0.15167			

269 ->294	-0.20923			
271 ->296	-0.10312			
272 ->296	-0.19221			
273 ->296	0.14359			
274 ->296	-0.12607			
275 ->296	0.13477			
276 ->298	0.10121			
282 ->314	0.14821			
283 ->302	0.10769			
283 ->303	0.21665			
285 ->303	0.12296			
Excited State 284:	Singlet-A	4.1359 eV	299.77 nm	f=0.0033
270 ->296	0.13230			
271 ->296	0.16545			
272 ->296	0.25953			
273 ->296	-0.21477			
274 ->296	0.15838			
275 ->296	-0.15062			
281 ->303	0.10409			
282 ->300	-0.13222			
282 ->303	-0.12306			
283 ->303	0.13412			
285 ->303	0.11744			
Excited State 285:	Singlet-A	4.1371 eV	299.69 nm	f=0.0043
266 ->294	-0.11159			
267 ->294	0.23016			
269 ->294	-0.20835			
270 ->296	0.10965			
271 ->296	0.12479			
272 ->296	0.18018			
273 ->296	-0.15742			
274 ->296	0.10823			
275 ->296	-0.10030			
281 ->300	-0.12489			
281 ->303	-0.10488			
282 ->300	0.16417			
282 ->303	0.12026			
282 ->314	0.12661			
285 ->303	-0.11537			
Excited State 286:	Singlet-A	4.1397 eV	299.50 nm	f=0.0003
272 ->305	-0.10197			

272 ->306	0.10861
272 ->308	-0.10969
273 ->305	-0.17191
273 ->306	0.23856
273 ->307	-0.21648
273 ->308	-0.22825
273 ->309	-0.14510
273 ->310	-0.10638
282 ->300	-0.14320

Excited State 287: Singlet-A 4.1418 eV 299.35 nm f=0.0002

274 ->304	-0.15909
274 ->306	-0.10781
274 ->309	-0.13676
274 ->310	-0.11722
282 ->303	-0.11108
283 ->303	0.16296
284 ->301	-0.12820
284 ->302	0.20325
284 ->303	-0.14702

Excited State 288: Singlet-A 4.1521 eV 298.61 nm f=0.0019

269 ->295	0.17350
270 ->295	0.19205
271 ->295	0.14008
271 ->297	0.16004
272 ->297	0.21919
273 ->297	-0.10822
275 ->297	0.18290
282 ->303	-0.14218

Excited State 289: Singlet-A 4.1557 eV 298.35 nm f=0.0055

271 ->297	0.21525
272 ->297	0.26455
273 ->297	-0.13123
275 ->297	0.18696
275 ->299	0.11440
277 ->299	-0.13384
283 ->301	-0.15744
285 ->302	-0.15361

Excited State 290: Singlet-A 4.1567 eV 298.28 nm f=0.0021

269 ->295	0.18337
270 ->295	0.22931

271 ->295	0.14148			
277 ->301	0.13628			
281 ->300	0.10160			
282 ->303	0.21675			
285 ->302	0.11938			
Excited State 291:	Singlet-A	4.1595 eV	298.07 nm	f=0.0013
266 ->295	0.13398			
269 ->295	-0.13478			
270 ->295	-0.20933			
271 ->297	0.20594			
272 ->297	0.23935			
273 ->297	-0.12382			
275 ->297	0.13865			
280 ->313	0.10356			
283 ->301	0.11044			
283 ->302	0.13039			
284 ->315	-0.10683			
285 ->302	0.17347			
Excited State 292:	Singlet-A	4.1632 eV	297.81 nm	f=0.0005
270 ->295	0.13712			
275 ->298	0.12905			
277 ->302	0.10245			
281 ->301	0.11250			
283 ->298	0.13388			
283 ->301	0.19972			
283 ->302	0.32168			
283 ->303	-0.12317			
285 ->301	0.21596			
285 ->302	0.12812			
285 ->303	-0.12475			
Excited State 293:	Singlet-A	4.1705 eV	297.29 nm	f=0.0017
277 ->302	0.11221			
281 ->303	-0.18159			
282 ->315	-0.10013			
283 ->315	0.10613			
284 ->301	-0.14303			
284 ->302	0.26128			
284 ->303	0.13106			
284 ->304	0.14211			
285 ->303	-0.25583			

Excited State 294:	Singlet-A	4.1722 eV	297.17 nm	f=0.0023
275 ->298	-0.17782			
281 ->301	-0.14315			
281 ->306	0.16524			
281 ->307	-0.11349			
281 ->308	-0.13354			
282 ->298	0.12985			
282 ->302	0.17797			
283 ->301	0.17585			
Excited State 295:	Singlet-A	4.1731 eV	297.10 nm	f=0.0001
272 ->296	0.36560			
273 ->296	0.58681			
Excited State 296:	Singlet-A	4.1747 eV	296.99 nm	f=0.0008
271 ->300	-0.10427			
272 ->300	0.14089			
274 ->300	0.11704			
281 ->300	-0.18493			
281 ->301	0.11367			
281 ->303	0.11319			
282 ->300	0.26388			
282 ->301	-0.16095			
282 ->302	-0.10813			
284 ->315	-0.11910			
285 ->303	0.14453			
Excited State 297:	Singlet-A	4.1777 eV	296.78 nm	f=0.0017
269 ->295	-0.20047			
270 ->295	0.32358			
284 ->301	-0.13911			
284 ->302	0.21956			
284 ->303	0.27386			
284 ->304	-0.14340			
Excited State 298:	Singlet-A	4.1813 eV	296.52 nm	f=0.0010
269 ->295	0.28016			
270 ->295	-0.29016			
284 ->301	-0.11977			
284 ->302	0.16972			
284 ->303	0.31429			
Excited State 299:	Singlet-A	4.1859 eV	296.19 nm	f=0.0056
268 ->298	-0.10804			

275 ->298	0.18532			
275 ->302	-0.11019			
281 ->301	0.10866			
281 ->306	0.10990			
281 ->308	-0.15178			
282 ->304	-0.13778			
283 ->303	0.14573			
284 ->304	0.25332			

Excited State 300:	Singlet-A	4.1882 eV	296.03 nm	f=0.0008
271 ->297	0.12660			
272 ->297	-0.28222			
273 ->297	0.11910			
274 ->297	0.58130			

Orbital coefficients of atoms corresponding to peaks 1 and 2 in absorption spectrum of cluster 2 in DMF solution

Peak 1: 274→289; 274→293

			274(HOMO-11)
17	S	1S	-0.00002
		2S	0.00000
		2PX	-0.04553
		2PY	0.07244
		2PZ	0.07382
		3S	-0.00058
		3PX	0.11965
		3PY	-0.18989
		3PZ	-0.19352
		4S	0.00386
		4PX	0.07466
		4PY	-0.12454
		4PZ	-0.12827
		5D 0	0.00548
		5D+1	-0.00141
		5D-1	-0.00070
		5D+2	0.00418
		5D-2	0.00162
27	S	1S	0.00001
		2S	-0.00018
		2PX	-0.02967
		2PY	0.07752
		2PZ	-0.07526

		3S	-0.00035
		3PX	0.07779
		3PY	-0.20333
		3PZ	0.19749
		4S	0.00324
		4PX	0.05093
		4PY	-0.13125
		4PZ	0.12514
		5D 0	-0.00594
		5D+1	-0.00144
		5D-1	0.00012
		5D+2	-0.00359
		5D-2	-0.00174
30	S	1S	-0.00038
		2S	0.00175
		2PX	0.02891
		2PY	-0.08185
		2PZ	0.08624
		3S	-0.00384
		3PX	-0.07591
		3PY	0.21500
		3PZ	-0.22650
		4S	-0.00882
		4PX	-0.04683
		4PY	0.13472
		4PZ	-0.14555
		5D 0	-0.00738
		5D+1	0.00096
		5D-1	-0.00009
		5D+2	-0.00232
		5D-2	-0.00350
32	S	1S	0.00004
		2S	-0.00007
		2PX	0.04321
		2PY	-0.06445
		2PZ	-0.09101
		3S	0.00084
		3PX	-0.11338
		3PY	0.16871
		3PZ	0.23856
		4S	-0.00195
		4PX	-0.07148
		4PY	0.11272
		4PZ	0.15612

		5D 0	0.00701
		5D+1	0.00042
		5D-1	-0.00067
		5D+2	0.00213
		5D-2	0.00241

……

289(LUMO+3)

3	W	1S	-0.00020
		2S	0.00254
		3S	-0.05579
		4PX	0.00350
		4PY	-0.00288
		4PZ	-0.00208
		5PX	0.00302
		5PY	0.00000
		5PZ	-0.02011
		6PX	-0.16408
		6PY	-0.13625
		6PZ	-0.02521
		7D 0	0.29274
		7D+1	-0.02926
		7D-1	-0.02238
		7D+2	0.14239
		7D-2	0.10515
		8D 0	0.14677
		8D+1	-0.02054
		8D-1	-0.01211
		8D+2	0.08934
		8D-2	0.05116
		9F 0	-0.00021
		9F+1	0.00025
		9F-1	0.00001
		9F+2	0.00010
		9F-2	-0.00057
		9F+3	0.00050
		9F-3	0.00022
17	S	1S	-0.00031
		2S	0.00100
		2PX	-0.01198
		2PY	0.02631
		2PZ	0.02969
		3S	-0.00480
		3PX	0.03217

		3PY	-0.06868
		3PZ	-0.07624
		4S	0.00809
		4PX	0.03703
		4PY	-0.08373
		4PZ	-0.11405
		5D 0	-0.01021
		5D+1	0.00955
		5D-1	0.00464
		5D+2	-0.01201
		5D-2	0.00189
27	S	1S	-0.00071
		2S	0.00252
		2PX	0.01035
		2PY	-0.02650
		2PZ	0.02552
		3S	-0.01024
		3PX	-0.02694
		3PY	0.06871
		3PZ	-0.06434
		4S	0.00942
		4PX	-0.03908
		4PY	0.08576
		4PZ	-0.11034
		5D 0	-0.01312
		5D+1	-0.00761
		5D-1	-0.00141
		5D+2	-0.00918
		5D-2	0.00338
30	S	1S	-0.00065
		2S	0.00259
		2PX	-0.00643
		2PY	0.02332
		2PZ	-0.02104
		3S	-0.00843
		3PX	0.01550
		3PY	-0.06017
		3PZ	0.05288
		4S	-0.01503
		4PX	0.04089
		4PY	-0.09177
		4PZ	0.08294
		5D 0	-0.01071
		5D+1	0.01039

		5D-1	0.00365
		5D+2	-0.00023
		5D-2	-0.01362
32	S	1S	-0.00023
		2S	0.00030
		2PX	0.00852
		2PY	-0.02479
		2PZ	-0.02802
		3S	-0.00535
		3PX	-0.02154
		3PY	0.06461
		3PZ	0.07126
		4S	0.00934
		4PX	-0.03431
		4PY	0.08617
		4PZ	0.10937
		5D 0	-0.01220
		5D+1	-0.00812
		5D-1	-0.00197
		5D+2	0.00002
		5D-2	-0.01017
5	W	1S	-0.00149
		2S	-0.01114
		3S	-0.01442
		4PX	-0.00193
		4PY	-0.00505
		4PZ	-0.00043
		5PX	-0.01488
		5PY	0.02159
		5PZ	-0.00423
		6PX	-0.03457
		6PY	0.14629
		6PZ	-0.01795
		7D 0	0.39100
		7D+1	0.12421
		7D-1	-0.00747
		7D+2	0.18085
		7D-2	0.07068
		8D 0	0.20313
		8D+1	0.07544
		8D-1	0.00141
		8D+2	0.09967
		8D-2	0.03310

		9F 0	0.00002
		9F+1	-0.00064
		9F-1	-0.00110
		9F+2	-0.00020
		9F-2	-0.00072
		9F+3	-0.00073
		9F-3	-0.00054
15	S	1S	-0.00022
		2S	0.00076
		2PX	0.00610
		2PY	0.02777
		2PZ	0.02899
		3S	-0.00303
		3PX	-0.01477
		3PY	-0.07296
		3PZ	-0.07631
		4S	0.02052
		4PX	-0.02526
		4PY	-0.08382
		4PZ	-0.10139
		5D 0	-0.01889
		5D+1	0.00407
		5D-1	0.00269
		5D+2	-0.00771
		5D-2	0.00875
20	S	1S	-0.00018
		2S	0.00069
		2PX	-0.01817
		2PY	0.02892
		2PZ	-0.03001
		3S	-0.00227
		3PX	0.04682
		3PY	-0.07693
		3PZ	0.07830
		4S	0.00852
		4PX	0.06244
		4PY	-0.08181
		4PZ	0.11011
		5D 0	-0.01816
		5D+1	0.00475
		5D-1	0.00139
		5D+2	0.00119
		5D-2	-0.01335
22	S	1S	-0.00018

		2S	0.00033
		2PX	0.00566
		2PY	-0.02819
		2PZ	-0.03674
		3S	-0.00372
		3PX	-0.01500
		3PY	0.07413
		3PZ	0.09464
		4S	-0.00368
		4PX	-0.02462
		4PY	0.09452
		4PZ	0.13074
		5D 0	-0.01154
		5D+1	-0.01535
		5D-1	0.00159
		5D+2	-0.00469
		5D-2	-0.01485
34	S	1S	-0.00016
		2S	0.00053
		2PX	0.01341
		2PY	-0.03774
		2PZ	0.04307
		3S	-0.00250
		3PX	-0.03483
		3PY	0.09972
		3PZ	-0.11197
		4S	-0.00515
		4PX	-0.04414
		4PY	0.11713
		4PZ	-0.14762
		5D 0	-0.01268
		5D+1	-0.01353
		5D-1	-0.00624
		5D+2	-0.01528
		5D-2	0.00727
2	W	1S	-0.00122
		2S	-0.01125
		3S	-0.05325
		4PX	-0.00116
		4PY	0.00714
		4PZ	0.00348
		5PX	-0.02627
		5PY	0.01054

		5PZ	-0.00778
		6PX	-0.07049
		6PY	-0.09722
		6PZ	0.00008
		7D 0	0.37678
		7D+1	0.03457
		7D-1	-0.02204
		7D+2	-0.07815
		7D-2	-0.04469
		8D 0	0.19409
		8D+1	0.03648
		8D-1	-0.03101
		8D+2	-0.05275
		8D-2	-0.03023
		9F 0	0.00018
		9F+1	0.00091
		9F-1	0.00077
		9F+2	0.00077
		9F-2	-0.00067
		9F+3	0.00040
		9F-3	-0.00094
12	S	1S	-0.00083
		2S	0.00366
		2PX	-0.02397
		2PY	-0.01013
		2PZ	0.02217
		3S	-0.00911
		3PX	0.06327
		3PY	0.02641
		3PZ	-0.05736
		4S	-0.00091
		4PX	0.07206
		4PY	0.03149
		4PZ	-0.08446
		5D 0	-0.01450
		5D+1	-0.00043
		5D-1	-0.00880
		5D+2	-0.00428
		5D-2	0.00860
18	S	1S	-0.00044
		2S	0.00178
		2PX	0.02536
		2PY	0.01728
		2PZ	0.03668

		3S	-0.00559
		3PX	-0.06755
		3PY	-0.04605
		3PZ	-0.09468
		4S	-0.01052
		4PX	-0.07860
		4PY	-0.04938
		4PZ	-0.13019
		5D 0	-0.01475
		5D+1	0.00053
		5D-1	0.00915
		5D+2	-0.00219
		5D-2	0.01284
25	S	1S	-0.00141
		2S	0.00648
		2PX	0.02781
		2PY	0.00539
		2PZ	-0.03142
		3S	-0.01497
		3PX	-0.07318
		3PY	-0.01381
		3PZ	0.08009
		4S	-0.04661
		4PX	-0.10444
		4PY	-0.01407
		4PZ	0.11375
		5D 0	-0.01582
		5D+1	-0.00735
		5D-1	0.00905
		5D+2	0.00874
		5D-2	-0.00490
29	S	1S	0.00007
		2S	-0.00150
		2PX	-0.02699
		2PY	0.00265
		2PZ	-0.03426
		3S	-0.00341
		3PX	0.07059
		3PY	-0.00578
		3PZ	0.08992
		4S	0.05090
		4PX	0.07484
		4PY	-0.00868
		4PZ	0.12389

		5D 0	-0.01477
		5D+1	0.00445
		5D-1	-0.00582
		5D+2	0.00802
		5D-2	-0.00862

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293(LUMO+7)

3	W	1S	-0.00010
		2S	0.00046
		3S	0.07638
		4PX	-0.00529
		4PY	0.00424
		4PZ	-0.00377
		5PX	-0.00499
		5PY	-0.00991
		5PZ	-0.00125
		6PX	0.05537
		6PY	-0.02134
		6PZ	0.01443
		7D 0	0.47122
		7D+1	-0.01061
		7D-1	-0.04232
		7D+2	0.19049
		7D-2	0.13903
		8D 0	0.23852
		8D+1	-0.00133
		8D-1	-0.03359
		8D+2	0.09399
		8D-2	0.06135
		9F 0	0.00017
		9F+1	-0.00005
		9F-1	0.00021
		9F+2	-0.00029
		9F-2	0.00045
		9F+3	0.00006
		9F-3	-0.00048
17	S	1S	0.00034
		2S	-0.00101
		2PX	-0.01071
		2PY	0.03453
		2PZ	0.04543
		3S	0.00562
		3PX	0.02686

		3PY	-0.08854
		3PZ	-0.11781
		4S	-0.01037
		4PX	0.04195
		4PY	-0.13385
		4PZ	-0.15997
		5D 0	-0.01665
		5D+1	0.01377
		5D-1	0.00848
		5D+2	-0.01584
		5D-2	0.00527
27	S	1S	0.00059
		2S	-0.00263
		2PX	0.00532
		2PY	-0.04080
		2PZ	0.04326
		3S	0.00668
		3PX	-0.01322
		3PY	0.10527
		3PZ	-0.11318
		4S	0.01793
		4PX	-0.02638
		4PY	0.14388
		4PZ	-0.14811
		5D 0	-0.01950
		5D+1	-0.01055
		5D-1	-0.00191
		5D+2	-0.01685
		5D-2	0.00700
30	S	1S	0.00108
		2S	-0.00457
		2PX	-0.01531
		2PY	0.03768
		2PZ	-0.04662
		3S	0.01294
		3PX	0.04014
		3PY	-0.09729
		3PZ	0.12266
		4S	0.02097
		4PX	0.04567
		4PY	-0.13604
		4PZ	0.15133
		5D 0	-0.01542
		5D+1	0.01323

		5D-1	0.00331
		5D+2	-0.00028
		5D-2	-0.01677
32	S	1S	0.00003
		2S	0.00053
		2PX	0.01936
		2PY	-0.03747
		2PZ	-0.04210
		3S	0.00275
		3PX	-0.05058
		3PY	0.09582
		3PZ	0.10894
		4S	-0.02147
		4PX	-0.07254
		4PY	0.14637
		4PZ	0.14361
		5D 0	-0.02063
		5D+1	-0.01067
		5D-1	-0.00353
		5D+2	0.00150
		5D-2	-0.01697

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Peak 2:284→313

			284(HOMO-1)
14	S	1S	0.00007
		2S	-0.00011
		2PX	-0.07376
		2PY	-0.04811
		2PZ	-0.07695
		3S	0.00153
		3PX	0.19319
		3PY	0.12640
		3PZ	0.20075
		4S	0.00376
		4PX	0.12192
		4PY	0.07920
		4PZ	0.13721
		5D 0	-0.00405
		5D+1	-0.00013
		5D-1	0.00022
		5D+2	-0.00085
		5D-2	0.00219
21	S	1S	0.00007

		2S	-0.00018
		2PX	0.08769
		2PY	0.03514
		2PZ	0.05922
		3S	0.00120
		3PX	-0.22897
		3PY	-0.09149
		3PZ	-0.15362
		4S	0.01437
		4PX	-0.15658
		4PY	-0.05640
		4PZ	-0.10083
		5D 0	-0.00402
		5D+1	-0.00187
		5D-1	-0.00082
		5D+2	0.00337
		5D-2	0.00059
23	S	1S	0.00036
		2S	-0.00185
		2PX	0.05544
		2PY	0.00484
		2PZ	-0.09757
		3S	0.00321
		3PX	-0.14562
		3PY	-0.01225
		3PZ	0.25525
		4S	0.00345
		4PX	-0.08811
		4PY	-0.01003
		4PZ	0.17491
		5D 0	0.00415
		5D+1	0.00463
		5D-1	-0.00059
		5D+2	-0.00250
		5D-2	-0.00005
25	S	1S	-0.00004
		2S	0.00020
		2PX	0.00539
		2PY	-0.00517
		2PZ	-0.01048
		3S	-0.00049
		3PX	-0.01449
		3PY	0.01380
		3PZ	0.02731

		4S	-0.00788
		4PX	-0.01161
		4PY	0.00970
		4PZ	0.01767
		5D 0	0.00046
		5D+1	-0.00024
		5D-1	0.00054
		5D+2	-0.00002
		5D-2	0.00002

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313(LUMO+27)

6	W	1S	0.00177
		2S	0.02617
		3S	0.15947
		4PX	-0.13939
		4PY	0.07919
		4PZ	0.04306
		5PX	0.03781
		5PY	-0.05338
		5PZ	-0.00391
		6PX	-0.22479
		6PY	0.07948
		6PZ	0.08992
		7D 0	-0.17026
		7D+1	0.42965
		7D-1	-0.36165
		7D+2	0.07998
		7D-2	-0.03976
		8D 0	-0.13201
		8D+1	0.31795
		8D-1	-0.26187
		8D+2	0.05381
		8D-2	-0.00027
		9F 0	-0.00095
		9F+1	0.00397
		9F-1	-0.00157
		9F+2	0.00084
		9F-2	-0.00128
		9F+3	-0.00118
		9F-3	-0.00605
14	S	1S	-0.00280
		2S	0.01382
		2PX	0.04355

		2PY	-0.02717
		2PZ	-0.02043
		3S	-0.02653
		3PX	-0.11605
		3PY	0.07251
		3PZ	0.05376
		4S	-0.08902
		4PX	-0.16046
		4PY	0.07263
		4PZ	0.09704
		5D 0	0.00513
		5D+1	-0.01694
		5D-1	0.00226
		5D+2	0.03174
		5D-2	0.01562
21	S	1S	0.00656
		2S	-0.03795
		2PX	0.06398
		2PY	-0.03576
		2PZ	-0.02460
		3S	0.04280
		3PX	-0.16986
		3PY	0.09578
		3PZ	0.06621
		4S	0.39768
		4PX	-0.29273
		4PY	0.16415
		4PZ	0.16721
		5D 0	0.01191
		5D+1	0.02847
		5D-1	-0.01459
		5D+2	-0.01115
		5D-2	0.01677
23	S	1S	-0.00930
		2S	0.04919
		2PX	0.06083
		2PY	-0.04230
		2PZ	-0.00111
		3S	-0.07679
		3PX	-0.16092
		3PY	0.11323
		3PZ	0.00321
		4S	-0.39061
		4PX	-0.30953

		4PY	0.18634
		4PZ	-0.04388
		5D 0	-0.02638
		5D+1	0.00787
		5D-1	-0.00672
		5D+2	0.01412
		5D-2	-0.02242
35	S	1S	-0.00057
		2S	0.00316
		2PX	0.05501
		2PY	-0.03192
		2PZ	-0.01684
		3S	-0.00407
		3PX	-0.14654
		3PY	0.08450
		3PZ	0.04456
		4S	-0.03282
		4PX	-0.18497
		4PY	0.11960
		4PZ	0.06842
		5D 0	0.00695
		5D+1	-0.00171
		5D-1	0.00969
		5D+2	-0.03538
		5D-2	-0.01798

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Cartesian coordinates of cluster 3:

W	27.39637410	6.71378140	-28.66004180
W	27.08032520	6.71378140	-5.96944280
W	27.15933740	8.05021860	-11.64209260
W	27.23834960	6.71378140	-17.31474230
W	27.31736180	8.05021860	-22.98739210
W	27.00131290	8.05021860	-0.29679300
Ag	27.30188110	6.90541810	-20.27291570
Ag	27.38089340	7.85858190	-25.94556550
Ag	27.06484450	7.85858190	-3.25496640
Ag	27.14385670	6.90541810	-8.92761620
Ag	27.22286890	7.85858190	-14.60026600
S	25.30976790	6.24989650	-7.17567500
S	25.62581680	6.24989650	-29.86627410
S	25.23075560	8.51410350	-1.50302530
S	25.38878010	8.51410350	-12.84832480
S	25.54680460	8.51410350	-24.19362430
S	25.46779230	6.24989650	-18.52097460
S	28.98740080	8.52414300	-12.78082030
S	28.82937640	8.52414300	-1.43552070
S	28.90838860	6.23985700	-7.10817050
S	29.22443750	6.23985700	-29.79876960
S	29.06641310	6.23985700	-18.45347000
S	29.14542530	8.52414300	-24.12611980
S	26.98840130	5.88463510	0.14476600
S	27.14642570	5.88463510	-11.20053350
S	27.30445020	5.88463510	-22.54583300
S	27.06741350	8.87936490	-5.52788370
S	27.22543790	8.87936490	-16.87318330
S	27.38346240	8.87936490	-28.21848280
S	27.26476540	9.30752090	-21.17554770
S	27.34377760	5.45647910	-26.84819750
S	27.02772870	5.45647910	-4.15759850
S	27.18575320	5.45647910	-15.50289800
S	27.10674100	9.30752090	-9.83024820
S	26.94871650	9.30752090	1.51505130

Cluster 3 B3LYP/LanL2DZf+6-31Gd TD-PCM (300 states) in HMP (dielectric constant = 29.6)

Excitation energies and oscillator strengths:

Excited State	1:	Singlet-A	2.5746 eV	481.58 nm	f=0.0000

273 ->288 -0.14390
278 ->287 -0.19413
279 ->286 0.31818
284 ->286 -0.21695
284 ->287 0.23253
284 ->288 -0.16995
285 ->286 -0.20951
285 ->287 -0.17574
285 ->288 -0.11315
285 ->289 -0.18861

This state for optimization and/or second-order correction.

Total Energy, E(RPA) = -10694.8045888

Copying the excited state density for this state as the 1-particle RhoCI density.

Excited State 2: Singlet-A 2.5832 eV 479.96 nm f=0.0014
273 ->287 0.11756
273 ->288 -0.14300
278 ->286 0.16842
279 ->287 -0.15360
284 ->286 -0.19238
284 ->287 0.21349
284 ->288 -0.21480
285 ->286 0.16968
285 ->287 0.27432
285 ->288 0.12235
285 ->289 0.26949

Excited State 3: Singlet-A 2.6216 eV 472.93 nm f=0.0000
270 ->286 -0.11168
273 ->286 0.13328
273 ->287 -0.14002
275 ->286 0.13086
279 ->286 0.40827
279 ->288 -0.13871
284 ->287 -0.12462
284 ->288 0.19817
285 ->288 0.11406
285 ->289 0.20849

Excited State 4: Singlet-A 2.6570 eV 466.64 nm f=0.0033
269 ->286 0.12016
270 ->287 -0.11256
270 ->288 -0.14497
273 ->286 -0.16420

273 ->287	0.12374
275 ->286	0.24984
278 ->286	-0.23734
278 ->288	0.10289
279 ->287	0.28590
279 ->288	0.12887
279 ->289	-0.18969
284 ->288	-0.14549
285 ->289	0.16049

Excited State 5: Singlet-A 2.6745 eV 463.58 nm f=0.0054

271 ->293	-0.13480
277 ->286	-0.15750
277 ->287	-0.21435
277 ->288	-0.12975
277 ->289	-0.26626
278 ->293	0.11704
285 ->290	0.11518
285 ->291	0.16414
285 ->293	0.38123

Excited State 6: Singlet-A 2.6812 eV 462.42 nm f=0.0176

269 ->292	-0.10357
272 ->288	0.11692
274 ->287	0.14348
274 ->288	-0.13515
275 ->292	0.11738
276 ->286	0.18143
276 ->287	-0.14791
278 ->291	0.12666
278 ->292	-0.15905
279 ->290	-0.13817
279 ->291	0.10694
280 ->287	0.11591
280 ->288	-0.11528
284 ->290	0.15769
284 ->291	-0.20870
284 ->292	0.31883

Excited State 7: Singlet-A 2.7013 eV 458.98 nm f=0.0002

269 ->289	-0.11689
271 ->287	0.15538
271 ->288	0.11382
271 ->289	0.27183

275 ->286	0.18989
275 ->287	0.20469
275 ->289	0.11839
278 ->286	0.13979
278 ->287	0.18876
278 ->288	0.10748
278 ->289	0.19642
279 ->287	-0.10518
279 ->289	-0.18267
285 ->289	-0.13499
285 ->295	-0.12207

Excited State 8: Singlet-A 2.7067 eV 458.07 nm f=0.0037

268 ->291	0.14166
269 ->290	-0.11409
272 ->287	-0.13976
274 ->286	-0.19383
276 ->286	-0.23236
276 ->288	0.13611
277 ->289	-0.10814
278 ->291	-0.11276
278 ->292	-0.11462
279 ->290	0.35652
279 ->292	-0.12418
284 ->292	0.13983
285 ->293	0.11733

Excited State 9: Singlet-A 2.7239 eV 455.18 nm f=0.0001

268 ->290	0.16865
269 ->291	-0.10545
272 ->286	-0.23446
274 ->286	-0.10161
274 ->287	-0.15031
276 ->287	-0.13594
276 ->288	-0.16143
277 ->289	-0.10264
278 ->290	-0.17760
279 ->291	0.32504
279 ->292	0.18954
279 ->293	-0.14800
284 ->292	-0.11949
285 ->293	0.10003

Excited State 10: Singlet-A 2.7354 eV 453.26 nm f=0.0003

269 ->286	-0.20892
269 ->287	-0.17094
269 ->289	0.11473
270 ->286	0.25038
271 ->287	0.12654
275 ->287	-0.21474
275 ->289	0.28151
276 ->290	-0.10894
278 ->286	-0.16477
278 ->289	0.15801
279 ->286	0.10051
285 ->286	-0.11064

Excited State 11: Singlet-A 2.7416 eV 452.24 nm f=0.0007

270 ->286	0.21877
270 ->287	-0.20490
271 ->286	-0.11186
273 ->287	-0.10762
273 ->288	0.24559
275 ->286	0.21785
275 ->288	-0.18582
276 ->291	0.13712
278 ->288	0.14522
278 ->289	-0.13142
279 ->287	-0.18902
279 ->289	0.10072

Excited State 12: Singlet-A 2.7497 eV 450.91 nm f=0.0034

269 ->287	-0.10571
270 ->288	0.18091
272 ->290	-0.13302
273 ->286	0.16121
273 ->287	-0.18742
273 ->288	0.15686
274 ->291	-0.11009
275 ->286	-0.17202
275 ->287	0.10253
276 ->292	-0.16633
278 ->287	-0.12779
278 ->288	0.10153
279 ->288	0.20698
279 ->289	-0.12200
281 ->294	0.23932

Excited State 13:	Singlet-A	2.7582 eV	449.52 nm	f=0.0001
271 ->289	-0.10816			
277 ->293	-0.10113			
282 ->295	0.47156			
285 ->295	-0.43029			
Excited State 14:	Singlet-A	2.7594 eV	449.32 nm	f=0.0012
279 ->288	-0.10846			
281 ->287	0.10124			
281 ->294	0.58999			
284 ->294	0.10413			
Excited State 15:	Singlet-A	2.7760 eV	446.63 nm	f=0.0003
277 ->293	-0.10508			
282 ->295	-0.27303			
283 ->297	0.55146			
285 ->295	-0.22858			
Excited State 16:	Singlet-A	2.7877 eV	444.76 nm	f=0.0008
280 ->286	0.25861			
280 ->287	-0.33316			
280 ->288	0.33330			
280 ->294	-0.22937			
284 ->291	-0.11387			
284 ->292	0.18032			
284 ->296	-0.21244			
Excited State 17:	Singlet-A	2.8170 eV	440.13 nm	f=0.0009
282 ->297	-0.26127			
283 ->286	0.11526			
283 ->287	0.15509			
283 ->289	0.16859			
283 ->295	0.43823			
285 ->297	-0.35240			
Excited State 18:	Singlet-A	2.8198 eV	439.69 nm	f=0.0001
278 ->296	0.10023			
279 ->296	0.10986			
280 ->286	0.11331			
280 ->287	-0.13835			
280 ->288	0.15001			
280 ->294	0.30002			
284 ->292	0.12374			
284 ->296	0.49125			

Excited State 19:	Singlet-A	2.8209 eV	439.52 nm	f=0.0003
271 ->289	0.11182			
274 ->293	0.11625			
276 ->293	0.12841			
277 ->290	0.12521			
277 ->291	0.19341			
277 ->292	0.10494			
277 ->293	0.45692			
283 ->293	0.15506			
283 ->297	0.16248			
285 ->286	0.11152			
285 ->287	0.12222			
285 ->289	0.12115			

Excited State 20:	Singlet-A	2.8449 eV	435.82 nm	f=0.0054
280 ->296	0.34218			
281 ->294	-0.16631			
284 ->294	0.51854			

Excited State 21:	Singlet-A	2.8607 eV	433.41 nm	f=0.0236
277 ->286	0.16626			
277 ->287	0.18120			
277 ->289	0.16872			
279 ->290	-0.11382			
283 ->286	0.18503			
283 ->287	0.22452			
283 ->288	0.12769			
283 ->289	0.26328			
283 ->295	-0.12501			
285 ->290	0.10275			
285 ->291	0.12731			
285 ->293	0.24281			
285 ->297	0.16071			

Excited State 22:	Singlet-A	2.8832 eV	430.02 nm	f=0.0133
274 ->287	0.15518			
276 ->286	0.39539			
277 ->286	-0.13736			
279 ->290	0.27668			
280 ->288	0.10248			
283 ->286	0.10285			
283 ->287	0.12767			
283 ->289	0.15503			

284 ->290 -0.12780

Excited State 23: Singlet-A 2.8901 eV 429.00 nm f=0.0001
272 ->291 0.20641
272 ->292 0.12433
274 ->290 0.21926
274 ->291 0.21117
276 ->290 0.27787
277 ->290 -0.17155
277 ->291 -0.11014
279 ->286 0.11545
282 ->289 0.14109
285 ->286 -0.21950
285 ->289 0.15697

Excited State 24: Singlet-A 2.9038 eV 426.98 nm f=0.0016
272 ->290 0.10185
272 ->292 -0.14543
274 ->292 0.13079
276 ->290 -0.20361
276 ->291 0.15764
279 ->287 0.10688
282 ->286 0.20883
282 ->287 0.25117
282 ->288 0.14881
282 ->289 0.31726
282 ->295 -0.10552

Excited State 25: Singlet-A 2.9096 eV 426.12 nm f=0.0003
272 ->290 -0.12177
272 ->292 0.12446
274 ->290 -0.12787
274 ->292 -0.18365
276 ->290 0.10801
276 ->291 -0.21096
280 ->292 -0.13310
282 ->286 0.17103
282 ->287 0.20947
282 ->288 0.11254
282 ->289 0.22847
284 ->286 -0.11550
285 ->286 0.10136
285 ->289 -0.18286

Excited State 26:	Singlet-A	2.9148 eV	425.36 nm	f=0.0017
274 ->286	-0.18709			
276 ->286	0.16009			
276 ->287	-0.16730			
277 ->286	0.13708			
277 ->287	0.21520			
277 ->288	0.10517			
277 ->289	0.14299			
278 ->290	0.10273			
279 ->291	-0.16162			
283 ->286	-0.15290			
283 ->287	-0.17463			
283 ->289	-0.20212			

Excited State 27:	Singlet-A	2.9261 eV	423.72 nm	f=0.0063
272 ->290	0.17068			
274 ->291	0.10667			
276 ->290	-0.10158			
276 ->292	0.18214			
279 ->286	-0.13897			
279 ->287	0.10000			
280 ->296	-0.11284			
281 ->286	-0.21932			
281 ->287	0.25505			
281 ->288	-0.25483			
281 ->294	-0.12797			
284 ->286	-0.11892			
284 ->287	0.12997			
284 ->288	-0.11260			
284 ->294	-0.10657			
285 ->289	0.13882			

Excited State 28:	Singlet-A	2.9429 eV	421.30 nm	f=0.0071
274 ->286	0.26700			
276 ->287	0.25794			
277 ->289	0.27099			
279 ->290	0.11031			
279 ->291	0.10508			
283 ->286	-0.12237			
283 ->287	-0.12371			
283 ->289	-0.11816			
285 ->293	0.20431			

Excited State 29:	Singlet-A	2.9450 eV	421.00 nm	f=0.0042

272 ->290	-0.12708
272 ->291	0.10985
274 ->292	0.11150
276 ->292	-0.20366
279 ->288	-0.16184
280 ->292	0.12800
281 ->286	-0.22320
281 ->287	0.25798
281 ->288	-0.25433
281 ->294	-0.12042
285 ->289	-0.13400

Excited State 30: Singlet-A 2.9722 eV 417.15 nm f=0.0122

273 ->288	-0.14144
276 ->288	-0.12786
278 ->288	0.10382
279 ->286	0.10076
279 ->287	-0.19531
284 ->286	0.45246
284 ->288	-0.19515

Excited State 31: Singlet-A 2.9748 eV 416.78 nm f=0.0577

272 ->286	0.22349
274 ->287	0.22185
274 ->288	-0.11434
276 ->288	0.26734
277 ->289	0.11604
278 ->290	-0.10606
279 ->291	0.17863
280 ->286	0.10035
284 ->286	0.20069
284 ->292	-0.22496
285 ->293	0.10149

Excited State 32: Singlet-A 2.9792 eV 416.17 nm f=0.0046

271 ->289	0.11924
272 ->290	0.16481
274 ->291	0.13345
277 ->291	-0.10666
278 ->286	-0.10060
279 ->286	0.16198
279 ->287	0.18177
284 ->288	-0.14351
285 ->286	0.39963

285 ->289 -0.19236

Excited State 33: Singlet-A 2.9882 eV 414.91 nm f=0.0007
274 ->291 0.10892
274 ->292 -0.18553
276 ->291 -0.11351
276 ->292 0.20305
280 ->290 0.18281
280 ->291 -0.27452
280 ->292 0.47215

Excited State 34: Singlet-A 3.0058 eV 412.48 nm f=0.0004
268 ->286 -0.12204
273 ->286 -0.16445
273 ->287 0.15568
278 ->286 0.14925
278 ->287 -0.18884
279 ->288 0.31533
284 ->286 -0.12182
284 ->287 -0.15956
284 ->288 0.31831
285 ->286 0.10855

Excited State 35: Singlet-A 3.0138 eV 411.39 nm f=0.0284
269 ->293 -0.11564
271 ->293 -0.10767
275 ->293 0.16047
278 ->291 0.12303
278 ->293 0.33998
279 ->293 -0.33886
285 ->290 -0.11485
285 ->291 -0.14538
285 ->293 -0.23110

Excited State 36: Singlet-A 3.0248 eV 409.90 nm f=0.0223
271 ->287 -0.13486
271 ->289 -0.17967
278 ->289 0.10242
279 ->289 -0.21071
282 ->295 -0.12160
283 ->290 0.11368
283 ->291 0.17066
283 ->293 0.41597
283 ->297 -0.16444

Excited State 37:	Singlet-A	3.0311 eV	409.04 nm	f=0.0283
277 ->293	-0.17015			
282 ->295	0.28509			
283 ->290	0.10198			
283 ->291	0.14911			
283 ->293	0.35057			
283 ->297	0.20330			
285 ->295	0.29264			
Excited State 38:	Singlet-A	3.0395 eV	407.91 nm	f=0.0015
282 ->290	0.15999			
282 ->291	0.24397			
282 ->292	0.13404			
282 ->293	0.59903			
Excited State 39:	Singlet-A	3.0494 eV	406.59 nm	f=0.0006
283 ->286	0.54243			
283 ->288	-0.11153			
283 ->289	-0.38827			
Excited State 40:	Singlet-A	3.0588 eV	405.34 nm	f=0.0052
272 ->290	0.10770			
278 ->288	0.12725			
279 ->288	0.10724			
279 ->289	-0.11961			
284 ->286	-0.13466			
284 ->287	-0.19705			
285 ->286	-0.30271			
285 ->287	0.32595			
285 ->288	0.10643			
285 ->289	-0.19877			
Excited State 41:	Singlet-A	3.0610 eV	405.04 nm	f=0.0224
280 ->294	-0.29469			
281 ->290	0.18205			
281 ->291	-0.26444			
281 ->292	0.44106			
284 ->296	0.15137			
Excited State 42:	Singlet-A	3.0668 eV	404.28 nm	f=0.0079
271 ->287	-0.10292			
271 ->289	-0.17697			
277 ->293	0.11582			

278 ->286	0.10768
279 ->289	-0.17015
282 ->295	0.17390
283 ->293	-0.17382
283 ->297	0.18167
285 ->287	-0.22267
285 ->290	-0.11018
285 ->295	0.21864

Excited State 43: Singlet-A 3.0692 eV 403.96 nm f=0.0789

272 ->286	-0.19839
274 ->286	0.13842
274 ->287	-0.11282
274 ->288	-0.16599
278 ->292	-0.11166
279 ->291	0.12471
279 ->292	-0.10368
280 ->286	0.13238
280 ->288	-0.11509
281 ->292	0.11595
284 ->290	-0.15004
285 ->287	-0.11892
285 ->290	0.23278
285 ->291	0.17479
285 ->293	-0.15343

Excited State 44: Singlet-A 3.0745 eV 403.27 nm f=0.0065

272 ->286	0.18231
274 ->286	-0.14039
274 ->288	0.13121
275 ->291	0.12783
278 ->292	0.11302
279 ->290	0.12095
279 ->292	0.13286
280 ->286	-0.12986
280 ->288	0.10614
284 ->291	-0.13214
285 ->290	0.31279
285 ->291	0.24651
285 ->293	-0.20077

Excited State 45: Singlet-A 3.0863 eV 401.73 nm f=0.0008

278 ->286	-0.17444
278 ->287	-0.11726

278 ->289 0.14668
279 ->289 -0.11786
282 ->286 -0.12474
284 ->286 0.18857
284 ->287 0.38936
284 ->288 0.26383
284 ->289 -0.17194
285 ->287 0.14150
285 ->289 -0.12692

Excited State 46: Singlet-A 3.0947 eV 400.64 nm f=0.0464
267 ->297 -0.10217
283 ->295 0.39581
285 ->297 0.45554

Excited State 47: Singlet-A 3.0966 eV 400.39 nm f=0.0777
272 ->286 0.18963
272 ->287 0.16647
272 ->289 -0.10081
275 ->290 -0.10968
276 ->286 -0.10693
276 ->289 0.13209
278 ->292 -0.11367
279 ->291 0.10279
280 ->294 0.22409
281 ->292 0.15606
282 ->286 0.19243
282 ->289 -0.13312
284 ->290 -0.16453
284 ->296 -0.12628
285 ->297 -0.10437

Excited State 48: Singlet-A 3.0993 eV 400.03 nm f=0.0070
280 ->294 -0.14742
282 ->286 0.50049
282 ->289 -0.34466
284 ->287 0.11705

Excited State 49: Singlet-A 3.1034 eV 399.52 nm f=0.0309
272 ->286 -0.10211
272 ->287 -0.15416
275 ->290 0.11236
276 ->286 0.10559
276 ->289 -0.10235

280 ->294	0.34845
281 ->291	-0.13345
281 ->292	0.21504
284 ->290	0.17314
284 ->292	-0.10543
284 ->296	-0.19629

Excited State 50: Singlet-A 3.1186 eV 397.56 nm f=0.0031

273 ->292	0.11956
276 ->287	-0.11925
276 ->288	0.11451
278 ->291	-0.12484
278 ->292	0.15886
279 ->291	-0.10552
279 ->292	0.24507
280 ->286	0.34826
280 ->288	-0.24175
280 ->294	0.10845
281 ->286	-0.10625
284 ->292	0.14305

Excited State 51: Singlet-A 3.1285 eV 396.30 nm f=0.0078

270 ->290	0.10289
272 ->286	0.10923
272 ->287	0.19801
272 ->288	0.10236
274 ->286	0.11552
274 ->289	0.18488
275 ->291	-0.17794
276 ->287	-0.10641
276 ->289	0.22540
278 ->290	-0.15657
279 ->290	0.11406
279 ->292	-0.15114
284 ->290	0.18004
284 ->292	-0.15027
285 ->291	0.13721

Excited State 52: Singlet-A 3.1326 eV 395.78 nm f=0.0036

268 ->286	-0.14832
268 ->287	0.10105
278 ->286	0.11847
278 ->288	-0.16502
280 ->296	0.38467

284 ->287	0.10465			
284 ->294	-0.25595			
285 ->287	0.17647			
285 ->288	-0.11866			

Excited State 53:	Singlet-A	3.1340 eV	395.62 nm	f=0.0039
278 ->286	0.20652			
278 ->288	-0.10816			
279 ->287	0.15859			
280 ->296	-0.16659			
281 ->286	0.40100			
281 ->288	-0.30503			
284 ->286	0.11300			
284 ->294	0.10009			
285 ->287	0.10163			

Excited State 54:	Singlet-A	3.1383 eV	395.07 nm	f=0.0063
278 ->286	-0.20306			
279 ->287	-0.16396			
280 ->296	0.24978			
281 ->286	0.34703			
281 ->288	-0.27813			
284 ->294	-0.16464			

Excited State 55:	Singlet-A	3.1418 eV	394.62 nm	f=0.0003
277 ->289	-0.11080			
283 ->286	-0.27144			
283 ->287	0.49660			
283 ->288	0.11143			
283 ->289	-0.29394			

Excited State 56:	Singlet-A	3.1449 eV	394.24 nm	f=0.1145
272 ->289	0.26955			
274 ->287	0.15813			
274 ->288	0.10989			
274 ->289	0.24503			
275 ->290	-0.15067			
275 ->291	-0.12067			
276 ->286	0.10748			
276 ->287	0.21059			
276 ->288	0.13494			
277 ->286	0.10639			
277 ->289	-0.10541			
278 ->291	-0.10928			

279 ->290	-0.10322
284 ->290	-0.13270
284 ->291	0.10988
284 ->292	0.10918
285 ->290	0.15212

Excited State 57: Singlet-A 3.1565 eV 392.80 nm f=0.0141

273 ->292	-0.10939
274 ->286	-0.17275
274 ->288	0.24603
276 ->287	0.13306
276 ->288	-0.16429
278 ->292	-0.11841
279 ->292	-0.12576
280 ->286	0.32668
280 ->288	-0.23979
284 ->290	0.10310
284 ->292	-0.10500

Excited State 58: Singlet-A 3.1569 eV 392.74 nm f=0.0151

269 ->290	-0.14429
269 ->291	-0.13552
274 ->286	-0.10689
274 ->289	-0.14767
275 ->290	-0.20734
275 ->291	-0.18098
275 ->293	0.10439
277 ->286	-0.20518
277 ->287	-0.12197
277 ->289	0.22027
278 ->290	-0.11030
278 ->291	-0.11573
283 ->287	0.19100
283 ->289	-0.13084
285 ->290	0.13437

Excited State 59: Singlet-A 3.1600 eV 392.35 nm f=0.0075

268 ->286	0.10747
269 ->286	-0.10844
269 ->287	-0.14651
275 ->287	0.13878
278 ->286	0.18511
278 ->288	0.10780
278 ->289	-0.14124

279 ->287	0.16159
280 ->296	0.15636
284 ->287	0.11519
285 ->287	-0.20664
285 ->288	0.38896

Excited State 60: Singlet-A 3.1644 eV 391.81 nm f=0.0007

268 ->286	-0.12197
269 ->286	0.17990
269 ->289	-0.10683
272 ->290	-0.12157
275 ->286	-0.16328
278 ->287	-0.21438
278 ->289	0.14935
279 ->288	-0.14352
284 ->287	-0.14213
285 ->288	0.34705
285 ->289	-0.14234

Excited State 61: Singlet-A 3.1668 eV 391.51 nm f=0.0502

273 ->290	0.15934
273 ->292	-0.10856
275 ->290	-0.14690
276 ->288	0.13494
278 ->290	0.18496
278 ->291	-0.14733
280 ->286	-0.13594
284 ->290	0.33943
284 ->291	-0.11693
284 ->292	-0.18523
285 ->290	0.14335
285 ->291	-0.11902

Excited State 62: Singlet-A 3.1858 eV 389.18 nm f=0.0725

271 ->291	-0.14159
271 ->293	-0.29546
275 ->293	-0.11520
282 ->297	0.42203
283 ->295	0.15422
285 ->290	-0.12332

Excited State 63: Singlet-A 3.1880 eV 388.91 nm f=0.0050

268 ->290	0.11441
270 ->290	-0.13105

270 ->291	0.10766
275 ->290	-0.16484
282 ->297	-0.13173
285 ->290	-0.32477
285 ->291	0.34120
285 ->292	0.17152

Excited State 64: Singlet-A 3.1940 eV 388.18 nm f=0.0072

268 ->286	-0.12172
268 ->287	0.11143
268 ->288	-0.10162
269 ->286	-0.10010
269 ->287	0.11758
269 ->288	-0.11609
275 ->287	-0.13551
275 ->288	0.18934
279 ->287	-0.10541
279 ->288	0.20635
280 ->296	-0.11938
282 ->287	0.12975
283 ->290	-0.12898
284 ->287	0.10853
285 ->287	-0.10811
285 ->288	0.28741

Excited State 65: Singlet-A 3.1946 eV 388.10 nm f=0.0005

283 ->290	0.49926
283 ->291	0.34221
283 ->293	-0.28750

Excited State 66: Singlet-A 3.1973 eV 387.78 nm f=0.0032

274 ->290	0.13243
274 ->292	-0.10426
282 ->286	-0.23678
282 ->287	0.43863
282 ->288	0.11427
282 ->289	-0.26093
285 ->288	-0.10211

Excited State 67: Singlet-A 3.1983 eV 387.66 nm f=0.0017

274 ->290	-0.10995
275 ->286	-0.10833
278 ->289	-0.12011
279 ->288	-0.10046

279 ->289	-0.15385
282 ->287	0.10952
282 ->297	-0.14362
284 ->287	0.13366
284 ->288	0.16356
284 ->289	0.42977

Excited State 68: Singlet-A 3.2002 eV 387.43 nm f=0.0093

271 ->291	0.13013
271 ->293	0.31627
275 ->293	0.12617
277 ->289	-0.11367
282 ->287	0.10518
282 ->297	0.34485
284 ->289	0.17412
285 ->297	-0.13406

Excited State 69: Singlet-A 3.2050 eV 386.85 nm f=0.0033

272 ->291	-0.12017
274 ->290	-0.19550
274 ->291	0.13863
274 ->292	0.16574
276 ->290	0.21204
276 ->292	-0.12540
278 ->289	0.12550
280 ->290	-0.16628
280 ->292	0.12129
282 ->286	-0.11143
282 ->287	0.22384
282 ->289	-0.13303
284 ->288	-0.10897
284 ->289	-0.21673

Excited State 70: Singlet-A 3.2181 eV 385.27 nm f=0.0037

272 ->290	-0.24857
272 ->291	-0.23198
272 ->293	0.16477
276 ->290	0.15969
276 ->291	0.29043
276 ->293	-0.10322
277 ->286	-0.11870
278 ->287	0.18252
279 ->286	0.13104
279 ->287	0.11063

Excited State 71:	Singlet-A	3.2237 eV	384.60 nm	f=0.0375
271 ->293	-0.14451			
272 ->289	-0.16807			
273 ->292	-0.12286			
274 ->289	-0.20705			
276 ->289	-0.11797			
277 ->286	0.28121			
277 ->287	0.11746			
277 ->289	-0.15704			
279 ->292	0.10600			
281 ->296	-0.14099			

Excited State 72:	Singlet-A	3.2248 eV	384.47 nm	f=0.0186
273 ->291	0.10824			
273 ->292	-0.17144			
274 ->289	0.10648			
275 ->291	0.12336			
277 ->286	-0.15930			
279 ->292	0.13411			
281 ->296	-0.18994			
284 ->290	0.26017			
284 ->291	0.30988			
284 ->292	0.16059			
284 ->293	-0.10391			

Excited State 73:	Singlet-A	3.2262 eV	384.31 nm	f=0.0122
273 ->291	-0.12430			
273 ->292	0.20309			
279 ->292	-0.13570			
281 ->296	0.28242			
284 ->290	0.20960			
284 ->291	0.38449			

Excited State 74:	Singlet-A	3.2297 eV	383.89 nm	f=0.0000
283 ->287	-0.21531			
283 ->288	0.64860			
283 ->289	-0.16236			

Excited State 75:	Singlet-A	3.2318 eV	383.64 nm	f=0.0090
273 ->291	0.12728			
273 ->292	-0.21248			
279 ->292	0.15418			
281 ->296	0.49677			

284 ->311 -0.11335

Excited State 76: Singlet-A 3.2405 eV 382.60 nm f=0.0001
280 ->287 -0.12435
281 ->286 0.24132
281 ->287 0.52131
281 ->288 0.29712
281 ->289 -0.21360

Excited State 77: Singlet-A 3.2424 eV 382.38 nm f=0.0009
270 ->287 0.12926
270 ->289 -0.15746
275 ->286 0.32568
275 ->289 0.13036
276 ->291 0.11465
278 ->287 -0.19971
278 ->289 0.13494
279 ->286 -0.11031
279 ->289 0.18694
284 ->289 0.27554

Excited State 78: Singlet-A 3.2432 eV 382.29 nm f=0.0005
282 ->290 0.50700
282 ->291 0.36014
282 ->293 -0.28744

Excited State 79: Singlet-A 3.2491 eV 381.59 nm f=0.0031
272 ->290 0.10728
272 ->291 0.14639
272 ->293 0.14268
274 ->293 0.27233
275 ->286 -0.12250
275 ->288 0.11434
275 ->289 0.13684
276 ->293 0.19564
277 ->293 -0.12566
279 ->289 0.20102
280 ->286 0.10793
280 ->287 0.22194
280 ->288 0.12230
284 ->289 0.16003

Excited State 80: Singlet-A 3.2497 eV 381.53 nm f=0.0012
274 ->293 -0.12021

280 ->286	0.22892
280 ->287	0.46524
280 ->288	0.25372
280 ->289	-0.20271
281 ->287	0.11586

Excited State 81: Singlet-A 3.2611 eV 380.19 nm f=0.0018

268 ->291	-0.10972
268 ->292	0.14644
269 ->292	0.16323
273 ->291	0.14075
273 ->292	-0.22700
275 ->291	0.10562
275 ->292	-0.18726
278 ->292	0.15235
279 ->292	-0.19871
284 ->292	0.17948
285 ->291	-0.14049
285 ->292	0.33265

Excited State 82: Singlet-A 3.2626 eV 380.02 nm f=0.0005

269 ->286	-0.17630
270 ->286	0.31727
274 ->293	-0.13997
275 ->287	0.29503
275 ->288	0.21965
275 ->289	-0.13946
279 ->289	0.10670
280 ->290	-0.10823

Excited State 83: Singlet-A 3.2655 eV 379.68 nm f=0.0045

268 ->290	0.17894
268 ->291	-0.12688
268 ->292	-0.17563
270 ->290	-0.17065
270 ->291	0.10364
278 ->290	-0.21881
278 ->291	0.16002
278 ->292	0.11966
279 ->290	0.20767
279 ->291	-0.19249
285 ->290	0.22701
285 ->291	-0.22513

Excited State 84:	Singlet-A	3.2707 eV	379.07 nm	f=0.0005
269 ->286	0.10147			
270 ->286	-0.14884			
271 ->286	-0.23254			
271 ->287	-0.17515			
272 ->293	-0.20607			
274 ->293	-0.24747			
275 ->289	0.28128			
276 ->291	-0.11595			
276 ->293	-0.10564			
277 ->293	0.14044			
278 ->289	0.11807			
279 ->289	0.14432			
Excited State 85:	Singlet-A	3.2748 eV	378.60 nm	f=0.0001
283 ->290	-0.43003			
283 ->291	0.49554			
283 ->292	0.19565			
283 ->293	-0.13197			
Excited State 86:	Singlet-A	3.2793 eV	378.08 nm	f=0.0022
272 ->286	0.21764			
272 ->287	-0.17124			
272 ->288	-0.21809			
272 ->289	0.10421			
274 ->286	0.19465			
274 ->287	-0.18656			
274 ->288	-0.11406			
276 ->286	0.12249			
277 ->286	-0.20150			
277 ->287	0.22592			
277 ->288	0.13205			
277 ->289	-0.12344			
281 ->290	-0.18979			
281 ->292	0.12194			
Excited State 87:	Singlet-A	3.2814 eV	377.83 nm	f=0.0004
281 ->290	0.50736			
281 ->291	-0.20682			
281 ->292	-0.33343			
Excited State 88:	Singlet-A	3.2861 eV	377.29 nm	f=0.0012
270 ->286	-0.11151			
270 ->287	0.14901			

270 ->288	-0.21481
273 ->286	0.10252
275 ->288	-0.12222
278 ->288	0.12481
282 ->287	-0.16795
282 ->288	0.48441
282 ->289	-0.11731

Excited State 89: Singlet-A 3.2903 eV 376.82 nm f=0.0012

269 ->286	0.11558
270 ->287	-0.15616
270 ->288	0.25157
273 ->286	-0.10256
275 ->287	-0.13756
275 ->288	0.14596
278 ->288	-0.12457
280 ->290	-0.11637
282 ->287	-0.14512
282 ->288	0.42381
282 ->289	-0.10450

Excited State 90: Singlet-A 3.2917 eV 376.65 nm f=0.0000

270 ->286	0.12278
274 ->290	-0.13862
276 ->290	0.13059
280 ->290	0.46608
280 ->291	-0.19528
280 ->292	-0.29870

Excited State 91: Singlet-A 3.2953 eV 376.24 nm f=0.0002

268 ->291	0.11037
269 ->292	-0.12808
275 ->292	0.11389
279 ->292	0.19038
284 ->292	-0.14541
285 ->291	-0.16867
285 ->292	0.54621

Excited State 92: Singlet-A 3.2999 eV 375.72 nm f=0.0018

269 ->286	0.15367
270 ->286	0.15772
270 ->287	-0.10277
270 ->288	-0.12131
273 ->286	0.43392

273 ->288 -0.37951
284 ->288 0.10113

Excited State 93: Singlet-A 3.3041 eV 375.24 nm f=0.0003
271 ->286 -0.39303
271 ->287 -0.20530
271 ->289 0.40886

Excited State 94: Singlet-A 3.3146 eV 374.05 nm f=0.0020
268 ->290 0.10183
269 ->290 -0.21222
269 ->291 -0.20507
269 ->293 0.11151
275 ->293 -0.11967
278 ->290 0.20190
278 ->291 0.22450
278 ->293 -0.20394
284 ->291 0.16123
284 ->293 0.32054

Excited State 95: Singlet-A 3.3181 eV 373.66 nm f=0.0016
269 ->290 0.15411
269 ->291 0.14766
278 ->290 -0.13899
278 ->291 -0.16740
279 ->293 -0.18788
284 ->293 0.51438

Excited State 96: Singlet-A 3.3210 eV 373.33 nm f=0.0016
272 ->286 0.12789
272 ->287 -0.26234
272 ->288 0.30662
274 ->287 0.10418
274 ->288 -0.23436
276 ->286 -0.11512
276 ->287 0.22982
276 ->288 -0.30352
277 ->288 0.13917

Excited State 97: Singlet-A 3.3313 eV 372.18 nm f=0.0000
282 ->290 -0.42476
282 ->291 0.48702
282 ->292 0.19882
282 ->293 -0.12980

Excited State 98:	Singlet-A	3.3406 eV	371.15 nm	f=0.0001
274 ->290	0.12875			
274 ->291	0.12808			
276 ->290	0.11562			
276 ->291	0.10776			
277 ->290	0.42435			
277 ->291	0.37065			
277 ->293	-0.23414			
Excited State 99:	Singlet-A	3.3440 eV	370.76 nm	f=0.0000
281 ->289	0.16830			
283 ->291	-0.20612			
283 ->292	0.64075			
Excited State 100:	Singlet-A	3.3440 eV	370.76 nm	f=0.0000
281 ->287	0.14175			
281 ->288	0.18399			
281 ->289	0.63694			
283 ->292	-0.16887			
Excited State 101:	Singlet-A	3.3587 eV	369.14 nm	f=0.0000
280 ->287	0.16109			
280 ->288	0.19622			
280 ->289	0.65173			
Excited State 102:	Singlet-A	3.3647 eV	368.49 nm	f=0.0001
268 ->290	-0.11231			
268 ->291	-0.11129			
268 ->293	0.12547			
270 ->290	-0.11389			
270 ->291	-0.13544			
273 ->291	0.10080			
275 ->290	-0.15918			
275 ->291	-0.16832			
275 ->293	0.27441			
278 ->290	0.16183			
278 ->291	0.20640			
279 ->290	0.20789			
279 ->291	0.27421			
279 ->293	0.11261			
284 ->291	0.12835			
Excited State 103:	Singlet-A	3.3722 eV	367.67 nm	f=0.0000

279 ->293	-0.10391			
280 ->291	-0.10934			
281 ->290	0.34247			
281 ->291	0.52685			
281 ->292	0.16340			
281 ->293	-0.14295			
Excited State 104:	Singlet-A	3.3736 eV	367.52 nm	f=0.0001
268 ->291	0.10122			
270 ->293	-0.11313			
275 ->290	0.14326			
275 ->291	0.20746			
275 ->293	0.23084			
278 ->293	0.14254			
279 ->293	0.41092			
281 ->291	0.11228			
284 ->293	0.27480			
Excited State 105:	Singlet-A	3.3739 eV	367.48 nm	f=0.0015
268 ->286	-0.21544			
268 ->287	-0.22959			
268 ->289	0.15018			
269 ->286	0.18010			
270 ->286	0.19322			
270 ->287	0.31416			
270 ->289	-0.20727			
273 ->286	-0.11176			
273 ->287	-0.16075			
278 ->287	0.11192			
279 ->286	0.13928			
Excited State 106:	Singlet-A	3.3821 eV	366.59 nm	f=0.0000
278 ->288	0.10084			
280 ->290	0.33524			
280 ->291	0.49941			
280 ->292	0.14563			
280 ->293	-0.13826			
281 ->291	0.10918			
Excited State 107:	Singlet-A	3.3828 eV	366.51 nm	f=0.0005
268 ->286	-0.21263			
269 ->286	-0.20068			
269 ->288	0.16299			
269 ->289	-0.13831			

270 ->288	0.21995
273 ->288	-0.11182
275 ->286	0.12523
275 ->287	-0.14244
278 ->288	0.27469
279 ->286	-0.10320
279 ->287	0.18744
280 ->290	-0.13213
280 ->291	-0.19969

Excited State 108: Singlet-A 3.3920 eV 365.52 nm f=0.0010

268 ->289	-0.11080
269 ->287	0.20292
269 ->288	0.18967
269 ->289	0.37965
270 ->287	-0.10073
270 ->289	-0.13510
275 ->287	0.14807
275 ->288	0.11446
275 ->289	0.24567
278 ->289	-0.17936
279 ->289	-0.19657

Excited State 109: Singlet-A 3.3947 eV 365.23 nm f=0.0013

272 ->286	-0.12997
272 ->288	0.10375
274 ->286	-0.14164
274 ->287	0.19626
274 ->288	0.13021
274 ->289	-0.11700
276 ->286	-0.16497
276 ->287	0.10603
277 ->286	-0.31913
277 ->287	0.38507
277 ->288	0.12190
277 ->289	-0.17623

Excited State 110: Singlet-A 3.4025 eV 364.39 nm f=0.0000

282 ->291	-0.22206
282 ->292	0.64924

Excited State 111: Singlet-A 3.4064 eV 363.98 nm f=0.0001

269 ->290	0.17259
269 ->291	-0.13751

269 ->292	-0.11937
270 ->290	-0.21992
270 ->291	0.15001
270 ->292	0.10235
272 ->290	-0.11151
275 ->290	0.28492
275 ->291	-0.23128
275 ->292	-0.18967
277 ->290	0.10141
278 ->290	0.14108
278 ->291	-0.14344

Excited State 112: Singlet-A 3.4101 eV 363.58 nm f=0.0001

268 ->288	-0.13612
270 ->290	0.11919
272 ->290	-0.18963
272 ->291	0.13896
272 ->292	0.14171
274 ->290	-0.21124
274 ->291	0.16799
274 ->292	0.11473
275 ->288	0.12923
275 ->290	-0.13438
275 ->291	0.10223
276 ->290	-0.11269
277 ->290	0.21704
277 ->291	-0.19725
277 ->292	-0.12014
279 ->288	-0.12179

Excited State 113: Singlet-A 3.4145 eV 363.11 nm f=0.0021

268 ->286	-0.11223
268 ->288	0.23053
269 ->286	-0.13509
269 ->288	0.15623
272 ->290	-0.13612
272 ->291	0.11212
274 ->290	-0.15695
274 ->291	0.11309
275 ->288	-0.22510
277 ->290	0.13837
277 ->291	-0.11974
278 ->286	-0.12954
278 ->287	0.13472

278 ->288	-0.15269			
279 ->288	0.18891			
Excited State 114:	Singlet-A	3.4162 eV	362.93 nm	f=0.0131
272 ->286	0.14068			
272 ->287	0.21383			
272 ->289	-0.17641			
274 ->286	-0.25518			
274 ->287	-0.27821			
274 ->289	0.15285			
276 ->286	0.20520			
276 ->287	0.29122			
276 ->288	0.10547			
276 ->289	-0.10283			
Excited State 115:	Singlet-A	3.4268 eV	361.81 nm	f=0.0003
269 ->292	0.10135			
270 ->290	0.13776			
270 ->291	-0.20164			
270 ->292	0.34519			
273 ->292	-0.21593			
275 ->291	-0.13909			
275 ->292	0.25009			
278 ->291	0.11319			
278 ->292	-0.24035			
279 ->292	0.16814			
Excited State 116:	Singlet-A	3.4349 eV	360.95 nm	f=0.0490
266 ->295	-0.10578			
274 ->295	0.15108			
276 ->295	0.16631			
277 ->295	0.61858			
Excited State 117:	Singlet-A	3.4354 eV	360.90 nm	f=0.0020
268 ->294	0.10398			
269 ->294	0.12678			
273 ->294	-0.25649			
275 ->294	-0.19362			
276 ->292	0.13389			
278 ->294	0.35253			
279 ->294	0.30812			
281 ->310	0.10730			
Excited State 118:	Singlet-A	3.4462 eV	359.77 nm	f=0.0000

272 ->290	-0.11174			
272 ->291	0.18600			
272 ->292	-0.34368			
274 ->292	0.20894			
276 ->290	0.10474			
276 ->291	-0.18881			
276 ->292	0.37204			
277 ->292	-0.13858			
278 ->294	-0.10773			
Excited State 119:	Singlet-A	3.4491 eV	359.47 nm	f=0.0001
270 ->290	0.15198			
270 ->292	-0.19776			
273 ->290	0.45330			
273 ->291	-0.24609			
273 ->292	-0.27619			
278 ->292	0.10755			
Excited State 120:	Singlet-A	3.4532 eV	359.04 nm	f=0.0002
271 ->290	0.44660			
271 ->291	0.41160			
271 ->293	-0.28129			
Excited State 121:	Singlet-A	3.4578 eV	358.56 nm	f=0.0000
281 ->291	0.11686			
281 ->292	0.11037			
281 ->293	0.68510			
Excited State 122:	Singlet-A	3.4657 eV	357.75 nm	f=0.0030
268 ->289	-0.16734			
269 ->287	0.12200			
269 ->289	0.14972			
272 ->287	-0.13049			
272 ->289	-0.20460			
275 ->287	-0.10303			
275 ->289	-0.19229			
276 ->287	0.10865			
276 ->288	0.10506			
276 ->289	0.29228			
278 ->287	0.11980			
278 ->289	0.28399			
Excited State 123:	Singlet-A	3.4734 eV	356.96 nm	f=0.0000
280 ->291	0.12567			

280 ->292	0.11345			
280 ->293	0.68229			
Excited State 124:	Singlet-A	3.4752 eV	356.77 nm	f=0.0030
268 ->287	0.10867			
268 ->289	0.11206			
269 ->287	-0.16743			
269 ->288	-0.12625			
269 ->289	-0.11798			
272 ->287	-0.13445			
272 ->289	-0.23435			
276 ->287	0.13825			
276 ->288	0.13110			
276 ->289	0.37284			
278 ->286	-0.10380			
278 ->289	-0.21170			
Excited State 125:	Singlet-A	3.4787 eV	356.40 nm	f=0.0001
268 ->286	-0.17303			
268 ->287	0.11650			
268 ->289	-0.11792			
269 ->286	0.11790			
269 ->287	-0.11803			
269 ->289	0.12463			
272 ->287	0.12837			
272 ->288	-0.10201			
275 ->289	-0.11381			
277 ->287	-0.19826			
277 ->288	0.41144			
278 ->288	0.16859			
Excited State 126:	Singlet-A	3.4808 eV	356.20 nm	f=0.0001
268 ->286	0.18959			
268 ->287	-0.13799			
268 ->289	0.12125			
269 ->286	-0.12904			
269 ->287	0.12313			
269 ->289	-0.13728			
271 ->286	0.10478			
271 ->287	-0.11213			
272 ->288	-0.15324			
275 ->289	0.12590			
277 ->287	-0.15623			
277 ->288	0.39602			

278 ->286 0.10250

Excited State 127: Singlet-A 3.5063 eV 353.60 nm f=0.0000
268 ->287 -0.12668
270 ->286 0.12228
270 ->287 0.13456
271 ->287 -0.10161
273 ->286 0.31399
273 ->287 0.44376
273 ->288 0.18807
273 ->289 -0.20939

Excited State 128: Singlet-A 3.5147 eV 352.76 nm f=0.0003
268 ->290 -0.14473
268 ->291 -0.25713
268 ->293 0.12321
270 ->290 0.33070
270 ->291 0.32331
270 ->293 -0.11596
273 ->290 -0.15133
273 ->291 -0.16383
279 ->290 0.15806
279 ->291 0.10360

Excited State 129: Singlet-A 3.5205 eV 352.18 nm f=0.0010
277 ->297 0.34688
278 ->299 0.12554
279 ->298 -0.21743
285 ->298 0.23144
285 ->299 0.26432
285 ->301 0.20946
285 ->304 0.12104

Excited State 130: Singlet-A 3.5287 eV 351.36 nm f=0.0001
269 ->290 0.14415
269 ->293 0.40521
270 ->293 -0.15058
275 ->291 0.15163
275 ->293 0.31455
278 ->292 -0.12357
278 ->293 -0.17611
279 ->293 -0.21737

Excited State 131: Singlet-A 3.5298 eV 351.25 nm f=0.0001

268 ->290	-0.20380
269 ->290	-0.17150
269 ->291	0.16662
269 ->292	0.12573
270 ->292	0.20219
270 ->293	-0.10333
275 ->290	0.16495
275 ->291	-0.11210
275 ->292	0.20993
278 ->292	0.31028
279 ->290	-0.10358
279 ->291	0.14847
279 ->292	-0.14248

Excited State 132: Singlet-A 3.5316 eV 351.07 nm f=0.0082

277 ->297	0.34791
278 ->299	-0.14553
279 ->298	0.27625
284 ->298	-0.22968
284 ->299	0.23090
284 ->301	-0.14494

Excited State 133: Singlet-A 3.5347 eV 350.76 nm f=0.0002

268 ->292	0.10366
272 ->290	0.12699
274 ->290	0.17233
274 ->291	-0.16275
274 ->292	-0.11413
275 ->292	-0.11969
276 ->290	0.15814
276 ->291	-0.11756
277 ->290	0.34403
277 ->291	-0.32052
277 ->292	-0.14645
278 ->292	-0.12610
279 ->292	0.11365

Excited State 134: Singlet-A 3.5351 eV 350.72 nm f=0.0002

268 ->290	0.18834
268 ->292	-0.20819
269 ->290	0.20280
269 ->291	-0.12401
269 ->292	-0.16275
270 ->290	0.12103

270 ->291	-0.17496			
275 ->292	0.23674			
277 ->290	0.13764			
277 ->291	-0.13045			
278 ->290	0.17455			
278 ->291	-0.18884			
278 ->292	0.11476			
279 ->292	-0.19624			
Excited State 135:	Singlet-A	3.5369 eV	350.55 nm	f=0.0003
271 ->286	0.27807			
271 ->287	-0.27435			
271 ->288	-0.13254			
271 ->289	0.13708			
277 ->297	0.32069			
278 ->298	-0.10212			
284 ->298	0.10209			
284 ->299	-0.10983			
285 ->299	-0.13833			
Excited State 136:	Singlet-A	3.5436 eV	349.88 nm	f=0.0002
268 ->288	-0.15760			
269 ->287	0.14966			
270 ->288	0.11034			
271 ->286	-0.21309			
271 ->287	0.24169			
275 ->288	-0.12539			
277 ->297	0.19970			
278 ->298	-0.10177			
279 ->299	0.11067			
284 ->298	0.12022			
284 ->299	-0.13784			
284 ->301	0.11666			
285 ->298	-0.11587			
285 ->299	-0.18423			
285 ->301	-0.11562			
Excited State 137:	Singlet-A	3.5497 eV	349.29 nm	f=0.0000
268 ->287	-0.17781			
268 ->288	0.18045			
269 ->287	-0.10764			
269 ->288	0.24963			
270 ->286	-0.10269			
270 ->287	0.19881			

270 ->288	-0.23878			
271 ->286	-0.14409			
271 ->287	0.12150			
271 ->288	0.16912			
275 ->287	-0.15271			
275 ->288	0.29136			
Excited State 138:	Singlet-A	3.5523 eV	349.03 nm	f=0.0005
272 ->287	-0.19232			
272 ->288	0.34592			
274 ->287	-0.21671			
274 ->288	0.37898			
276 ->287	-0.10640			
276 ->288	0.20044			
277 ->288	0.19086			
Excited State 139:	Singlet-A	3.5530 eV	348.95 nm	f=0.0013
268 ->296	0.11524			
269 ->296	0.13179			
273 ->296	-0.31049			
275 ->296	-0.20614			
278 ->296	0.35869			
279 ->296	0.29214			
284 ->296	-0.25124			
Excited State 140:	Singlet-A	3.5574 eV	348.52 nm	f=0.0001
272 ->290	-0.18253			
272 ->291	-0.22380			
272 ->293	0.12003			
274 ->290	0.27893			
274 ->291	0.33315			
274 ->293	-0.12294			
276 ->290	-0.24103			
276 ->291	-0.30193			
Excited State 141:	Singlet-A	3.5812 eV	346.21 nm	f=0.0000
279 ->298	0.17999			
284 ->299	-0.10349			
285 ->294	0.59383			
Excited State 142:	Singlet-A	3.5835 eV	345.99 nm	f=0.0000
269 ->298	0.10826			
278 ->295	0.14065			
279 ->295	-0.17127			

279 ->298	-0.30160			
279 ->301	0.13721			
284 ->299	0.13561			
284 ->301	-0.13302			
285 ->294	0.36601			
285 ->301	-0.14570			
Excited State 143:	Singlet-A	3.5925 eV	345.12 nm	f=0.0001
268 ->293	-0.17673			
269 ->293	0.21005			
272 ->293	-0.25149			
275 ->293	-0.19472			
276 ->293	0.34897			
278 ->293	0.30891			
Excited State 144:	Singlet-A	3.5958 eV	344.81 nm	f=0.0008
272 ->287	-0.14796			
272 ->288	-0.13784			
272 ->289	-0.37545			
274 ->287	0.15739			
274 ->288	0.14747			
274 ->289	0.41404			
276 ->289	-0.24836			
Excited State 145:	Singlet-A	3.6005 eV	344.35 nm	f=0.0000
272 ->292	-0.17334			
277 ->291	-0.23209			
277 ->292	0.60087			
Excited State 146:	Singlet-A	3.6033 eV	344.09 nm	f=0.0001
268 ->293	0.17451			
269 ->293	-0.23761			
270 ->293	0.11421			
272 ->293	-0.24295			
275 ->293	0.13508			
276 ->291	0.10014			
276 ->293	0.40937			
278 ->293	-0.26745			
Excited State 147:	Singlet-A	3.6049 eV	343.93 nm	f=0.0001
268 ->286	-0.14293			
268 ->287	-0.24750			
268 ->289	0.14134			
269 ->286	-0.14223			

269 ->287	-0.16253			
269 ->289	0.10774			
270 ->286	-0.13144			
270 ->287	-0.18398			
275 ->295	-0.12734			
278 ->295	-0.25913			
279 ->295	0.30195			
Excited State 148:	Singlet-A	3.6105 eV	343.40 nm	f=0.0000
268 ->286	0.13936			
268 ->287	0.20382			
268 ->289	-0.13550			
269 ->286	0.10819			
269 ->287	0.14373			
270 ->286	0.10512			
270 ->287	0.15621			
275 ->295	-0.12206			
278 ->295	-0.24410			
279 ->295	0.28836			
279 ->298	-0.18613			
285 ->301	-0.11316			
Excited State 149:	Singlet-A	3.6213 eV	342.37 nm	f=0.0001
268 ->290	0.28538			
268 ->291	-0.21396			
268 ->292	-0.14523			
269 ->290	-0.25888			
269 ->291	0.22487			
269 ->292	0.16247			
270 ->290	0.11667			
271 ->290	0.15267			
271 ->291	-0.13338			
278 ->290	0.17519			
278 ->291	-0.12383			
278 ->292	-0.12867			
Excited State 150:	Singlet-A	3.6226 eV	342.25 nm	f=0.0000
270 ->289	-0.23679			
273 ->287	0.17038			
273 ->288	0.18110			
273 ->289	0.54253			
Excited State 151:	Singlet-A	3.6326 eV	341.31 nm	f=0.0001
270 ->294	0.14632			

273 ->294	0.52553			
278 ->294	0.12649			
279 ->294	0.31544			
283 ->294	-0.12040			
Excited State 152:	Singlet-A	3.6352 eV	341.07 nm	f=0.0000
283 ->294	0.69639			
Excited State 153:	Singlet-A	3.6450 eV	340.15 nm	f=0.0000
268 ->291	-0.11011			
270 ->290	0.12770			
270 ->291	0.14267			
273 ->290	0.36667			
273 ->291	0.47391			
273 ->292	0.12234			
273 ->293	-0.14974			
Excited State 154:	Singlet-A	3.6554 eV	339.18 nm	f=0.0000
268 ->298	0.17854			
278 ->298	-0.23094			
279 ->299	0.27511			
279 ->304	-0.20323			
284 ->295	0.33184			
284 ->301	-0.14065			
284 ->304	0.11234			
285 ->301	0.10880			
285 ->304	0.13925			
Excited State 155:	Singlet-A	3.6597 eV	338.78 nm	f=0.0001
278 ->295	-0.10808			
278 ->298	0.11693			
279 ->299	-0.14131			
279 ->304	0.10115			
284 ->295	0.60220			
Excited State 156:	Singlet-A	3.6616 eV	338.61 nm	f=0.0028
272 ->294	0.18534			
274 ->294	-0.36708			
276 ->294	0.42540			
284 ->300	-0.11942			
284 ->302	-0.14305			
284 ->303	-0.11082			
Excited State 157:	Singlet-A	3.6636 eV	338.42 nm	f=0.0000

269 ->287	0.12539			
269 ->288	-0.19001			
270 ->288	0.13803			
271 ->287	-0.25131			
271 ->288	0.53122			
Excited State 158:	Singlet-A	3.6752 eV	337.36 nm	f=0.0000
268 ->287	-0.11386			
268 ->289	-0.21438			
270 ->287	0.17192			
270 ->288	0.16437			
270 ->289	0.44600			
273 ->289	0.28748			
275 ->289	0.11923			
Excited State 159:	Singlet-A	3.6764 eV	337.24 nm	f=0.0000
272 ->291	-0.18124			
272 ->292	0.37548			
274 ->291	-0.18982			
274 ->292	0.41208			
276 ->292	0.20542			
277 ->292	0.16816			
Excited State 160:	Singlet-A	3.6790 eV	337.00 nm	f=0.0002
268 ->292	-0.25883			
269 ->290	-0.10951			
269 ->291	0.15703			
269 ->292	-0.18876			
270 ->291	-0.11405			
270 ->292	0.28263			
271 ->290	-0.25611			
271 ->291	0.24500			
275 ->291	0.15536			
275 ->292	-0.27147			
Excited State 161:	Singlet-A	3.6830 eV	336.64 nm	f=0.0000
268 ->290	-0.15892			
268 ->291	0.16527			
269 ->292	-0.19683			
270 ->291	-0.12667			
270 ->292	0.16628			
271 ->290	0.35824			
271 ->291	-0.29687			
271 ->292	-0.24558			

275 ->292	-0.19532			
Excited State 162:	Singlet-A	3.6937 eV	335.66 nm	f=0.0047
277 ->298	0.18538			
277 ->299	0.21855			
277 ->301	0.15935			
278 ->302	0.12012			
279 ->300	0.17526			
285 ->300	-0.23310			
285 ->302	0.28687			
285 ->303	-0.23409			
285 ->305	0.14376			
Excited State 163:	Singlet-A	3.6953 eV	335.51 nm	f=0.0000
282 ->294	0.70356			
Excited State 164:	Singlet-A	3.7039 eV	334.74 nm	f=0.0000
268 ->286	0.10260			
268 ->287	-0.22267			
268 ->288	0.37517			
269 ->287	0.21074			
269 ->288	-0.34776			
271 ->287	0.12107			
271 ->288	-0.24517			
Excited State 165:	Singlet-A	3.7114 eV	334.06 nm	f=0.0061
274 ->294	-0.18672			
276 ->294	0.21551			
276 ->298	0.16732			
278 ->300	-0.10247			
279 ->297	0.12242			
279 ->300	-0.17300			
280 ->299	0.10886			
284 ->300	0.22518			
284 ->302	0.23750			
284 ->303	0.16919			
Excited State 166:	Singlet-A	3.7131 eV	333.91 nm	f=0.0003
269 ->297	0.10780			
275 ->297	-0.17972			
278 ->297	-0.37338			
279 ->297	0.46238			
284 ->297	-0.16212			
285 ->297	-0.14971			

Excited State 167:	Singlet-A	3.7166 eV	333.60 nm	f=0.0000
272 ->291	-0.11135			
272 ->293	-0.41818			
274 ->291	0.11365			
274 ->293	0.44873			
276 ->293	-0.24654			
Excited State 168:	Singlet-A	3.7179 eV	333.47 nm	f=0.0000
285 ->296	0.69670			
Excited State 169:	Singlet-A	3.7188 eV	333.40 nm	f=0.0001
278 ->299	-0.13492			
278 ->301	0.12774			
279 ->301	0.13769			
279 ->304	-0.12938			
284 ->304	-0.13629			
284 ->306	-0.29755			
284 ->307	0.12048			
284 ->310	0.39680			
Excited State 170:	Singlet-A	3.7398 eV	331.53 nm	f=0.0036
268 ->290	0.15985			
268 ->291	0.21214			
269 ->290	0.15159			
269 ->291	0.17700			
269 ->294	-0.10691			
270 ->290	0.12819			
270 ->291	0.16124			
274 ->298	0.10492			
275 ->294	0.11536			
276 ->298	0.11135			
278 ->294	-0.12845			
279 ->294	0.26357			
279 ->300	-0.15210			
Excited State 171:	Singlet-A	3.7400 eV	331.50 nm	f=0.0010
268 ->290	-0.11410			
268 ->291	-0.14781			
268 ->294	-0.10674			
269 ->290	-0.10343			
269 ->291	-0.12466			
269 ->294	-0.16336			
270 ->291	-0.11365			

270 ->294	-0.11726			
273 ->294	-0.13468			
275 ->294	0.17579			
278 ->294	-0.19760			
279 ->294	0.40538			
Excited State 172:	Singlet-A	3.7421 eV	331.32 nm	f=0.0006
268 ->293	0.12218			
269 ->291	-0.10358			
270 ->290	-0.10208			
270 ->291	-0.15820			
270 ->293	-0.13677			
273 ->293	0.42849			
274 ->298	0.10784			
276 ->298	0.12900			
279 ->300	-0.20197			
Excited State 173:	Singlet-A	3.7436 eV	331.19 nm	f=0.0008
268 ->290	0.12793			
268 ->291	0.16865			
269 ->291	0.12375			
270 ->293	-0.19775			
273 ->291	0.11085			
273 ->293	0.43411			
276 ->298	-0.12005			
279 ->300	0.18596			
Excited State 174:	Singlet-A	3.7501 eV	330.62 nm	f=0.0009
271 ->295	0.42444			
275 ->295	0.16147			
277 ->300	0.16607			
277 ->302	-0.24466			
277 ->303	0.22711			
277 ->305	-0.15008			
279 ->295	0.10874			
Excited State 175:	Singlet-A	3.7540 eV	330.27 nm	f=0.0000
278 ->297	-0.13757			
284 ->297	0.68128			
Excited State 176:	Singlet-A	3.7567 eV	330.04 nm	f=0.0000
271 ->295	0.26186			
275 ->295	0.11291			
277 ->300	-0.17903			

277 ->302	0.25722			
277 ->303	-0.23395			
277 ->305	0.15333			
282 ->298	-0.11985			
282 ->299	-0.18146			
282 ->301	-0.17560			
282 ->304	-0.12869			
282 ->312	0.16377			
Excited State 177:	Singlet-A	3.7595 eV	329.79 nm	f=0.0005
267 ->295	0.12001			
271 ->295	0.30188			
275 ->295	0.12084			
277 ->302	0.11806			
277 ->303	-0.10186			
282 ->298	0.15069			
282 ->299	0.23273			
282 ->301	0.23168			
282 ->304	0.17302			
282 ->312	-0.23543			
282 ->315	0.10829			
283 ->313	-0.15726			
Excited State 178:	Singlet-A	3.7708 eV	328.80 nm	f=0.0000
283 ->296	0.70668			
Excited State 179:	Singlet-A	3.7721 eV	328.69 nm	f=0.0000
268 ->287	0.16787			
268 ->288	0.16192			
268 ->289	0.44841			
269 ->287	0.11180			
269 ->288	0.10766			
269 ->289	0.31688			
270 ->289	0.22745			
275 ->289	-0.12392			
Excited State 180:	Singlet-A	3.7784 eV	328.14 nm	f=0.0036
272 ->298	0.15021			
278 ->300	0.11223			
279 ->302	0.13060			
279 ->305	-0.11986			
282 ->313	-0.14497			
283 ->298	0.22732			
283 ->299	0.30543			

283 ->301	0.26028			
283 ->304	0.16714			
283 ->312	-0.18021			
Excited State 181:	Singlet-A	3.7828 eV	327.76 nm	f=0.0031
272 ->303	0.11754			
272 ->305	0.10346			
274 ->302	-0.17821			
274 ->303	-0.14593			
276 ->300	0.26490			
276 ->302	0.18656			
280 ->298	0.17253			
280 ->299	-0.22481			
280 ->300	-0.14514			
280 ->301	0.20149			
280 ->302	-0.16959			
280 ->303	-0.15055			
280 ->304	-0.10034			
Excited State 182:	Singlet-A	3.7843 eV	327.63 nm	f=0.0003
281 ->295	0.68998			
Excited State 183:	Singlet-A	3.7851 eV	327.56 nm	f=0.0078
271 ->292	0.23457			
274 ->302	0.10203			
276 ->300	-0.16920			
276 ->302	-0.10491			
280 ->298	0.18898			
280 ->299	-0.24436			
280 ->301	0.19238			
280 ->302	0.11050			
280 ->304	-0.11444			
281 ->295	0.13817			
Excited State 184:	Singlet-A	3.7854 eV	327.53 nm	f=0.0016
269 ->292	-0.17384			
270 ->292	0.14845			
271 ->291	-0.21294			
271 ->292	0.51517			
280 ->299	0.10666			
Excited State 185:	Singlet-A	3.7889 eV	327.23 nm	f=0.0018
272 ->298	0.17655			
273 ->296	0.20074			

274 ->298	0.10518			
278 ->300	0.11184			
279 ->296	0.14484			
279 ->302	0.14580			
279 ->305	-0.16490			
283 ->298	-0.10157			
283 ->299	-0.12868			
283 ->301	-0.10394			
284 ->303	0.10784			
285 ->305	0.10460			
Excited State 186:	Singlet-A	3.7907 eV	327.07 nm	f=0.0004
270 ->296	0.12043			
273 ->296	0.47199			
278 ->296	0.11350			
279 ->296	0.34743			
Excited State 187:	Singlet-A	3.7936 eV	326.82 nm	f=0.0012
271 ->298	-0.11117			
271 ->299	-0.10349			
275 ->301	-0.11737			
278 ->299	-0.15174			
278 ->301	-0.19131			
278 ->304	-0.12294			
279 ->299	0.14858			
279 ->301	0.14262			
279 ->302	0.10043			
285 ->298	0.21629			
285 ->299	0.10549			
285 ->304	-0.11815			
285 ->309	0.15990			
Excited State 188:	Singlet-A	3.7967 eV	326.56 nm	f=0.0013
268 ->293	-0.23856			
270 ->291	0.12970			
270 ->293	0.50887			
271 ->293	-0.11572			
273 ->293	0.26671			
275 ->293	0.13704			
Excited State 189:	Singlet-A	3.8005 eV	326.23 nm	f=0.0002
272 ->302	-0.20678			
272 ->305	0.14394			
274 ->300	0.32222			

274 ->305	0.17160			
276 ->300	0.27140			
276 ->302	-0.11094			
276 ->303	-0.18860			
277 ->300	-0.15664			
277 ->303	0.11275			
277 ->305	-0.10328			
280 ->302	0.10783			
280 ->303	0.10245			
Excited State 190:	Singlet-A	3.8026 eV	326.05 nm	f=0.0000
280 ->295	0.70441			
Excited State 191:	Singlet-A	3.8059 eV	325.76 nm	f=0.0011
270 ->298	0.20637			
270 ->299	-0.11997			
273 ->299	-0.13524			
273 ->301	0.12952			
278 ->299	-0.12482			
278 ->301	0.14411			
278 ->304	-0.11030			
279 ->299	-0.18059			
279 ->301	0.15900			
279 ->307	0.12442			
281 ->299	0.10571			
284 ->298	0.19670			
284 ->307	-0.12159			
Excited State 192:	Singlet-A	3.8128 eV	325.18 nm	f=0.0008
267 ->295	-0.12744			
269 ->298	-0.12597			
271 ->295	-0.12036			
275 ->295	0.13202			
275 ->298	-0.25302			
275 ->299	-0.14234			
278 ->295	0.19316			
279 ->295	0.26729			
279 ->304	0.10575			
279 ->308	-0.12387			
285 ->312	-0.12772			
Excited State 193:	Singlet-A	3.8140 eV	325.07 nm	f=0.0003
272 ->300	0.12429			
275 ->299	-0.11961			

276 ->305	0.10415			
277 ->302	0.10031			
278 ->298	-0.10799			
283 ->302	-0.11674			
283 ->303	0.12655			
283 ->313	0.45003			
285 ->312	-0.10033			
Excited State 194:	Singlet-A	3.8152 eV	324.97 nm	f=0.0012
270 ->298	-0.10933			
272 ->300	-0.13927			
273 ->298	0.12944			
274 ->302	0.10129			
275 ->298	-0.24614			
279 ->295	-0.10330			
281 ->298	-0.10284			
281 ->299	0.13457			
281 ->301	-0.11605			
283 ->313	0.25949			
Excited State 195:	Singlet-A	3.8176 eV	324.77 nm	f=0.0009
272 ->300	0.13571			
274 ->296	-0.17967			
275 ->295	0.10449			
276 ->296	0.20819			
278 ->295	0.13808			
279 ->295	0.20005			
281 ->298	-0.13041			
281 ->299	0.17814			
281 ->301	-0.16365			
281 ->304	0.11315			
281 ->310	-0.15758			
284 ->306	-0.10238			
Excited State 196:	Singlet-A	3.8223 eV	324.37 nm	f=0.0001
269 ->298	0.14113			
270 ->298	-0.10849			
273 ->298	0.11054			
273 ->299	-0.10614			
275 ->295	0.12029			
275 ->299	0.17833			
278 ->295	0.17961			
278 ->298	0.16997			
279 ->295	0.25063			

283 ->313	0.11771			
284 ->306	0.10472			
Excited State 197:	Singlet-A	3.8288 eV	323.82 nm	f=0.0021
272 ->296	0.15362			
274 ->296	-0.30759			
275 ->298	-0.10634			
276 ->296	0.36236			
276 ->302	-0.10188			
281 ->298	0.11893			
281 ->299	-0.15643			
281 ->301	0.13833			
281 ->310	0.11317			
284 ->314	0.10262			
Excited State 198:	Singlet-A	3.8311 eV	323.62 nm	f=0.0011
268 ->291	-0.16389			
268 ->292	0.35566			
269 ->291	0.15273			
269 ->292	-0.32581			
271 ->292	-0.18477			
282 ->296	0.26350			
Excited State 199:	Singlet-A	3.8313 eV	323.61 nm	f=0.0000
272 ->300	0.13014			
276 ->296	-0.10096			
282 ->296	0.60141			
Excited State 200:	Singlet-A	3.8315 eV	323.59 nm	f=0.0012
268 ->291	0.10166			
268 ->292	-0.21369			
269 ->292	0.19651			
271 ->292	0.11305			
272 ->300	-0.20366			
274 ->296	-0.11786			
274 ->302	0.12751			
275 ->298	0.12833			
276 ->296	0.14290			
276 ->303	-0.10415			
276 ->305	-0.14412			
282 ->296	0.25443			
Excited State 201:	Singlet-A	3.8374 eV	323.10 nm	f=0.0309
277 ->298	0.23487			

277 ->299	0.24313			
277 ->301	0.12757			
277 ->309	0.10284			
283 ->312	0.12379			
285 ->300	0.11157			
285 ->302	-0.12935			
285 ->312	0.11644			
Excited State 202:	Singlet-A	3.8383 eV	323.02 nm	f=0.0127
271 ->295	-0.10670			
277 ->298	-0.11050			
277 ->299	-0.13839			
278 ->295	0.11979			
279 ->295	0.11797			
282 ->299	0.12147			
285 ->301	-0.10578			
285 ->304	-0.14804			
285 ->309	0.19571			
285 ->312	0.25988			
Excited State 203:	Singlet-A	3.8505 eV	322.00 nm	f=0.0992
262 ->286	-0.11904			
270 ->300	-0.14166			
272 ->298	0.10625			
274 ->299	0.18898			
274 ->301	-0.12013			
276 ->298	0.25400			
276 ->299	-0.16874			
279 ->300	0.11366			
279 ->303	-0.10795			
280 ->310	0.10500			
284 ->300	-0.10869			
284 ->311	-0.16402			
Excited State 204:	Singlet-A	3.8548 eV	321.64 nm	f=0.1133
270 ->300	0.10286			
270 ->303	-0.10922			
272 ->298	0.19745			
272 ->299	-0.10502			
273 ->300	-0.12262			
273 ->302	-0.11881			
274 ->298	-0.13869			
274 ->299	0.13385			
275 ->302	0.11337			

276 ->294	0.11403
276 ->298	-0.14130
276 ->301	0.13724
276 ->304	-0.10011
278 ->300	-0.12906
279 ->300	-0.14778
284 ->311	-0.13264

Excited State 205: Singlet-A 3.8632 eV 320.94 nm f=0.0761

269 ->300	0.11860
270 ->302	0.10959
270 ->305	-0.12683
274 ->295	0.15701
274 ->298	0.16671
275 ->300	0.28234
275 ->302	-0.10051
276 ->295	0.11664
276 ->299	0.14243
278 ->303	0.10026
279 ->305	0.14474

Excited State 206: Singlet-A 3.8726 eV 320.16 nm f=0.0149

274 ->295	-0.16421
274 ->298	0.11670
275 ->303	-0.13217
276 ->295	-0.12378
277 ->295	0.12574
277 ->301	0.14448
277 ->304	0.14372
277 ->309	-0.10934
278 ->300	-0.10805
278 ->302	0.13326
278 ->303	-0.13200
278 ->305	0.12155
279 ->300	0.11319
279 ->302	-0.15116
279 ->303	0.11564
283 ->312	0.12691
285 ->302	-0.13001
285 ->303	0.11635
285 ->313	0.16353

Excited State 207: Singlet-A 3.8783 eV 319.69 nm f=0.0000

271 ->297	0.18727

275 ->297	0.10541			
281 ->297	0.65946			
Excited State 208:	Singlet-A	3.8802 eV	319.53 nm	f=0.0005
271 ->297	0.49580			
275 ->297	0.26021			
278 ->297	0.14222			
279 ->297	0.24043			
281 ->297	-0.25338			
Excited State 209:	Singlet-A	3.8838 eV	319.23 nm	f=0.0342
272 ->295	0.18903			
274 ->295	0.37234			
275 ->300	-0.11116			
275 ->302	0.11375			
276 ->295	0.30338			
277 ->295	-0.19713			
278 ->303	-0.10710			
279 ->305	-0.10256			
Excited State 210:	Singlet-A	3.8914 eV	318.61 nm	f=0.0004
268 ->296	-0.10125			
269 ->294	0.10323			
269 ->296	-0.17008			
270 ->294	0.10902			
270 ->296	-0.12725			
273 ->296	-0.18852			
275 ->294	-0.11593			
275 ->296	0.19299			
278 ->294	-0.20941			
278 ->296	-0.26745			
279 ->296	0.41164			
Excited State 211:	Singlet-A	3.8921 eV	318.56 nm	f=0.0012
268 ->294	-0.18349			
269 ->294	-0.19070			
270 ->294	-0.20305			
275 ->294	0.23697			
278 ->294	0.40978			
278 ->296	-0.13917			
279 ->296	0.21168			
Excited State 212:	Singlet-A	3.8940 eV	318.40 nm	f=0.0016
268 ->291	0.12395			

268 ->293	0.49855			
269 ->293	0.33293			
270 ->293	0.23127			
275 ->293	-0.12880			
Excited State 213:	Singlet-A	3.8944 eV	318.37 nm	f=0.0036
272 ->294	0.20997			
274 ->294	-0.28077			
276 ->294	-0.27918			
277 ->294	0.48851			
Excited State 214:	Singlet-A	3.8970 eV	318.15 nm	f=0.0000
280 ->297	0.70619			
Excited State 215:	Singlet-A	3.8996 eV	317.94 nm	f=0.0039
267 ->289	-0.10026			
271 ->295	0.10649			
271 ->298	0.15415			
271 ->299	0.25509			
271 ->301	0.21702			
271 ->304	0.11237			
285 ->298	0.38620			
285 ->301	-0.11563			
Excited State 216:	Singlet-A	3.9002 eV	317.89 nm	f=0.0012
265 ->294	-0.11901			
274 ->300	-0.10892			
274 ->302	-0.14826			
274 ->303	-0.11515			
276 ->302	0.13033			
276 ->303	0.13558			
280 ->300	0.15518			
280 ->302	0.21214			
280 ->303	0.19002			
280 ->305	0.10050			
280 ->311	0.28553			
281 ->302	-0.13419			
281 ->303	-0.12108			
281 ->311	-0.24190			
Excited State 217:	Singlet-A	3.9058 eV	317.44 nm	f=0.0121
265 ->294	0.25434			
280 ->300	0.10262			
280 ->302	0.14486			

280 ->303	0.12810			
280 ->311	0.23351			
280 ->314	-0.12779			
281 ->300	0.12186			
281 ->302	0.16832			
281 ->303	0.15268			
281 ->311	0.37941			
Excited State 218:	Singlet-A	3.9168 eV	316.55 nm	f=0.0032
265 ->287	-0.11309			
265 ->288	0.11238			
273 ->302	-0.14066			
273 ->303	-0.13106			
280 ->298	0.21821			
280 ->299	-0.15770			
280 ->306	0.18789			
280 ->307	-0.10476			
280 ->310	-0.18259			
284 ->311	0.33130			
Excited State 219:	Singlet-A	3.9206 eV	316.23 nm	f=0.0022
271 ->297	-0.11417			
275 ->297	0.10116			
278 ->297	0.17395			
279 ->297	0.22339			
283 ->298	0.26759			
283 ->299	0.15545			
283 ->309	0.15351			
283 ->312	0.26053			
283 ->315	0.10741			
285 ->313	0.26731			
Excited State 220:	Singlet-A	3.9251 eV	315.87 nm	f=0.0005
272 ->294	-0.26540			
274 ->294	0.20964			
276 ->294	0.36058			
277 ->294	0.47472			
Excited State 221:	Singlet-A	3.9274 eV	315.69 nm	f=0.0114
271 ->297	0.19466			
278 ->297	-0.19957			
279 ->297	-0.24098			
282 ->300	-0.11144			
282 ->302	0.16050			

282 ->303	-0.15209			
282 ->305	0.10534			
282 ->313	-0.23528			
283 ->315	0.14597			
285 ->313	0.31505			
Excited State 222:	Singlet-A	3.9329 eV	315.25 nm	f=0.0020
269 ->294	0.14782			
270 ->294	0.30239			
273 ->294	-0.11613			
275 ->294	0.48123			
284 ->298	0.15425			
Excited State 223:	Singlet-A	3.9356 eV	315.03 nm	f=0.0032
271 ->297	0.24883			
278 ->297	-0.24687			
279 ->297	-0.24463			
282 ->300	0.12156			
282 ->302	-0.17592			
282 ->303	0.16673			
282 ->305	-0.11491			
282 ->313	0.20345			
283 ->298	0.24917			
283 ->299	0.11180			
283 ->315	-0.16228			
Excited State 224:	Singlet-A	3.9370 eV	314.92 nm	f=0.0004
267 ->295	0.24386			
271 ->298	0.10752			
271 ->299	0.14946			
271 ->301	0.10926			
275 ->295	-0.11531			
278 ->295	0.17685			
282 ->298	-0.18128			
282 ->299	-0.14100			
282 ->312	-0.14514			
285 ->299	0.11504			
285 ->301	0.13001			
285 ->312	0.25072			
285 ->315	0.19825			
Excited State 225:	Singlet-A	3.9459 eV	314.21 nm	f=0.0043
265 ->292	-0.10780			
270 ->294	-0.11728			

273 ->299	0.10466
273 ->301	-0.14962
273 ->304	0.10790
275 ->294	-0.13488
279 ->306	-0.11126
280 ->311	-0.10362
281 ->310	-0.13277
284 ->298	0.17119
284 ->301	-0.14741
284 ->304	0.10923
284 ->306	0.11808
284 ->310	0.19767
285 ->299	0.11062

Excited State 226: Singlet-A 3.9473 eV 314.09 nm f=0.0053

267 ->295	-0.11551
275 ->295	0.10069
282 ->298	0.20790
282 ->299	0.15917
282 ->309	0.13246
282 ->312	0.19104
284 ->306	-0.10826
284 ->310	-0.13064
285 ->298	-0.18702
285 ->299	0.16583
285 ->301	0.10383
285 ->309	0.11288

Excited State 227: Singlet-A 3.9497 eV 313.91 nm f=0.0849

269 ->300	0.14172
269 ->302	-0.12161
270 ->300	-0.14744
274 ->299	-0.16951
275 ->300	0.13063
275 ->302	-0.11014
275 ->305	0.17142
276 ->298	-0.14232
278 ->300	0.14118
278 ->303	-0.12014
279 ->300	-0.10167
285 ->300	0.18344
285 ->303	-0.11132
285 ->305	0.12053

Excited State 228:	Singlet-A	3.9531 eV	313.64 nm	f=0.0940
272 ->298	0.16349			
275 ->294	-0.10048			
279 ->299	-0.10646			
284 ->298	0.31975			
284 ->306	-0.11530			
284 ->310	-0.10431			
284 ->311	0.11366			
Excited State 229:	Singlet-A	3.9553 eV	313.46 nm	f=0.1814
270 ->300	-0.10664			
272 ->298	0.23756			
275 ->300	-0.11083			
275 ->302	-0.11007			
279 ->305	0.13342			
284 ->298	-0.18482			
284 ->311	0.13711			
Excited State 230:	Singlet-A	3.9580 eV	313.25 nm	f=0.0029
270 ->300	-0.12090			
274 ->298	0.14315			
275 ->295	0.27396			
276 ->298	-0.12698			
278 ->295	-0.15592			
279 ->302	-0.10808			
282 ->298	-0.15469			
282 ->312	-0.14347			
284 ->311	-0.11661			
Excited State 231:	Singlet-A	3.9589 eV	313.18 nm	f=0.0127
270 ->300	0.10904			
270 ->302	0.10474			
272 ->299	-0.11162			
274 ->298	-0.17937			
275 ->295	0.29844			
276 ->298	0.13441			
276 ->299	-0.10632			
278 ->295	-0.17201			
282 ->298	-0.11273			
284 ->311	0.15057			
Excited State 232:	Singlet-A	3.9640 eV	312.78 nm	f=0.0022
275 ->295	0.29356			
278 ->295	-0.17145			

278 ->299	-0.14861			
281 ->298	0.11779			
281 ->310	-0.11117			
285 ->298	0.17910			
285 ->299	-0.14490			
285 ->304	0.13844			
285 ->309	-0.14764			
285 ->312	0.21936			
Excited State 233:	Singlet-A	3.9702 eV	312.29 nm	f=0.0002
273 ->299	-0.11492			
273 ->301	0.12632			
281 ->298	0.29210			
281 ->299	-0.20693			
281 ->306	0.16524			
281 ->310	-0.22590			
284 ->298	-0.23100			
284 ->314	-0.18894			
Excited State 234:	Singlet-A	3.9768 eV	311.77 nm	f=0.0027
259 ->287	0.10027			
262 ->286	-0.10438			
262 ->287	0.11576			
262 ->288	-0.12283			
265 ->286	0.19386			
265 ->287	-0.24652			
265 ->288	0.25447			
273 ->300	0.10097			
273 ->302	0.12786			
284 ->300	0.15369			
Excited State 235:	Singlet-A	3.9782 eV	311.66 nm	f=0.0109
266 ->295	-0.13214			
282 ->300	-0.18759			
282 ->302	0.24092			
282 ->303	-0.19980			
282 ->305	0.12574			
283 ->298	0.33411			
283 ->301	-0.16671			
283 ->304	-0.13839			
285 ->313	-0.20688			
Excited State 236:	Singlet-A	3.9810 eV	311.44 nm	f=0.0049
258 ->289	0.12667			

260 ->287	0.10139			
267 ->286	0.17334			
267 ->287	0.23065			
267 ->288	0.13483			
267 ->289	0.27834			
271 ->299	0.10889			
274 ->297	0.10263			
282 ->298	0.11395			
283 ->300	-0.11981			
283 ->302	0.13543			
283 ->303	-0.10232			
Excited State 237:	Singlet-A	3.9853 eV	311.10 nm	f=0.0004
268 ->299	0.10231			
269 ->298	-0.10610			
270 ->294	-0.12991			
274 ->297	-0.16327			
275 ->295	0.13237			
275 ->301	0.12736			
276 ->297	-0.13674			
279 ->301	0.16710			
279 ->308	0.22083			
284 ->307	-0.10201			
285 ->298	-0.11463			
285 ->308	-0.10883			
Excited State 238:	Singlet-A	3.9869 eV	310.98 nm	f=0.0009
272 ->297	0.19926			
274 ->297	0.41058			
276 ->297	0.34706			
277 ->297	-0.23445			
Excited State 239:	Singlet-A	3.9925 eV	310.54 nm	f=0.0051
270 ->298	-0.17061			
270 ->299	0.10384			
278 ->308	0.12594			
279 ->306	0.12957			
279 ->307	0.24619			
284 ->298	-0.14528			
284 ->307	-0.11005			
285 ->298	0.16101			
285 ->308	0.10788			
285 ->309	-0.14878			

Excited State 240:	Singlet-A	3.9987 eV	310.06 nm	f=0.0026
272 ->295	-0.16129			
274 ->295	-0.15144			
276 ->295	0.29344			
283 ->300	-0.25798			
283 ->302	0.28100			
283 ->303	-0.20018			
283 ->305	0.11196			
283 ->313	0.21289			
Excited State 241:	Singlet-A	3.9990 eV	310.04 nm	f=0.0012
272 ->295	-0.25518			
274 ->295	-0.23882			
276 ->295	0.46378			
283 ->300	0.17638			
283 ->302	-0.19390			
283 ->303	0.13450			
283 ->313	-0.14086			
Excited State 242:	Singlet-A	4.0071 eV	309.41 nm	f=0.0186
264 ->287	0.11973			
264 ->289	0.13404			
266 ->286	0.16360			
266 ->287	0.21262			
266 ->288	0.11991			
266 ->289	0.24829			
285 ->300	-0.20037			
285 ->302	0.10398			
285 ->313	0.10621			
Excited State 243:	Singlet-A	4.0086 eV	309.29 nm	f=0.0039
280 ->300	-0.19089			
280 ->302	-0.20827			
280 ->303	-0.14332			
280 ->311	0.49326			
281 ->314	-0.13279			
Excited State 244:	Singlet-A	4.0174 eV	308.62 nm	f=0.0007
272 ->294	0.54489			
274 ->294	0.41069			
276 ->294	0.11255			
Excited State 245:	Singlet-A	4.0244 eV	308.08 nm	f=0.0715
261 ->286	-0.10293			

262 ->286	0.12535
262 ->288	-0.10402
273 ->302	0.10476
280 ->298	0.23707
280 ->301	-0.14665
280 ->304	0.15225
280 ->306	0.16887
280 ->307	-0.11146
281 ->300	-0.10868
281 ->302	-0.11869
281 ->311	0.13387
284 ->300	-0.16799
284 ->311	-0.13640

Excited State 246: Singlet-A 4.0291 eV 307.72 nm f=0.0021

261 ->286	-0.11737
262 ->286	0.14390
265 ->296	0.11111
273 ->298	0.11795
273 ->299	-0.13302
281 ->302	0.10000
284 ->299	0.31564

Excited State 247: Singlet-A 4.0298 eV 307.67 nm f=0.0026

265 ->294	0.24967
268 ->296	-0.11258
269 ->296	-0.11761
270 ->296	-0.11880
275 ->296	0.14881
278 ->296	0.25963
281 ->300	-0.21612
281 ->302	-0.23920
281 ->303	-0.17494
284 ->299	0.16500

Excited State 248: Singlet-A 4.0306 eV 307.60 nm f=0.0413

266 ->295	-0.14225
267 ->297	-0.11864
277 ->304	0.10341
277 ->309	-0.14446
283 ->298	-0.17386
283 ->299	0.17662
283 ->301	0.12778
283 ->312	0.23555

285 ->313 -0.11095

Excited State 249: Singlet-A 4.0316 eV 307.53 nm f=0.0057
272 ->296 0.18227
274 ->296 -0.24901
276 ->296 -0.24108
277 ->296 0.46385
278 ->296 0.13475

Excited State 250: Singlet-A 4.0325 eV 307.46 nm f=0.0166
261 ->286 0.13544
262 ->286 -0.13956
272 ->296 0.10131
274 ->296 -0.14039
276 ->296 -0.11692
277 ->296 0.21797
278 ->296 -0.10580
284 ->299 0.16485

Excited State 251: Singlet-A 4.0332 eV 307.41 nm f=0.0007
260 ->286 -0.15675
267 ->295 0.17044
269 ->295 0.17695
275 ->301 -0.10684
275 ->308 -0.12846
278 ->298 0.12823
282 ->298 0.18914
282 ->301 -0.11710
285 ->299 -0.11105

Excited State 252: Singlet-A 4.0406 eV 306.84 nm f=0.0059
267 ->293 0.12679
277 ->304 0.10533
277 ->309 -0.15184
282 ->313 -0.10892
283 ->298 0.22335
283 ->299 -0.19504
283 ->309 -0.10059
285 ->300 -0.20412
285 ->303 0.10897

Excited State 253: Singlet-A 4.0417 eV 306.76 nm f=0.0091
265 ->294 -0.14204
268 ->296 -0.13325

269 ->296	-0.13362			
270 ->296	-0.11827			
275 ->296	0.28522			
278 ->296	0.31084			
281 ->300	0.17968			
281 ->302	0.19778			
281 ->303	0.13736			
284 ->311	-0.10906			
Excited State 254:	Singlet-A	4.0435 eV	306.62 nm	f=0.0090
261 ->287	0.12458			
262 ->287	-0.10741			
269 ->295	0.14287			
272 ->299	-0.13155			
278 ->309	-0.10488			
279 ->300	-0.11257			
285 ->300	-0.11192			
Excited State 255:	Singlet-A	4.0453 eV	306.49 nm	f=0.0060
267 ->295	0.12589			
269 ->295	0.19961			
271 ->309	-0.11181			
285 ->300	0.16841			
285 ->312	-0.10299			
Excited State 256:	Singlet-A	4.0495 eV	306.17 nm	f=0.0043
260 ->286	0.12396			
263 ->286	0.10204			
264 ->295	-0.12514			
282 ->298	0.11384			
282 ->300	-0.16633			
282 ->302	0.16098			
282 ->303	-0.10767			
282 ->313	0.29895			
283 ->298	-0.13441			
283 ->299	0.15338			
283 ->315	-0.19213			
285 ->300	-0.11745			
285 ->303	0.10658			
Excited State 257:	Singlet-A	4.0516 eV	306.01 nm	f=0.0006
255 ->288	-0.10897			
258 ->286	-0.13657			
260 ->286	0.18682			

263 ->286	0.17401			
263 ->287	-0.14450			
282 ->298	0.11131			
282 ->312	-0.11352			
282 ->313	-0.13700			
283 ->315	0.10732			
Excited State 258:	Singlet-A	4.0555 eV	305.72 nm	f=0.0027
267 ->293	0.10796			
277 ->298	-0.10122			
277 ->304	0.11848			
277 ->309	-0.13012			
282 ->298	0.11120			
282 ->313	0.13909			
285 ->299	0.12085			
285 ->300	0.21573			
285 ->303	-0.13004			
285 ->305	0.10476			
285 ->309	-0.10041			
285 ->313	0.10282			
Excited State 259:	Singlet-A	4.0565 eV	305.64 nm	f=0.0016
260 ->286	0.11568			
267 ->295	-0.14184			
275 ->301	-0.10345			
275 ->308	-0.13635			
278 ->299	-0.10032			
282 ->298	-0.12075			
285 ->299	-0.15412			
285 ->300	0.15739			
285 ->301	0.10467			
285 ->309	0.16674			
Excited State 260:	Singlet-A	4.0591 eV	305.45 nm	f=0.0001
266 ->295	0.10975			
267 ->297	-0.12124			
271 ->297	-0.12435			
275 ->297	0.50377			
278 ->297	-0.32035			
283 ->299	-0.11199			
Excited State 261:	Singlet-A	4.0597 eV	305.40 nm	f=0.0004
269 ->295	-0.10188			
270 ->306	-0.11153			

273 ->307	0.10755			
275 ->299	0.10070			
275 ->307	-0.13808			
282 ->298	0.23661			
282 ->301	-0.11547			
282 ->312	-0.12174			
282 ->315	-0.13157			
284 ->314	0.11019			
285 ->315	0.11016			
Excited State 262:	Singlet-A	4.0635 eV	305.12 nm	f=0.0000
272 ->296	-0.27091			
274 ->296	0.23077			
276 ->296	0.37252			
277 ->296	0.44671			
Excited State 263:	Singlet-A	4.0643 eV	305.06 nm	f=0.0003
267 ->295	-0.11371			
269 ->295	-0.14410			
270 ->294	-0.10440			
271 ->294	0.10456			
271 ->309	-0.11716			
275 ->307	0.11197			
279 ->306	0.10872			
282 ->298	0.16321			
282 ->315	-0.12216			
285 ->299	-0.12039			
285 ->309	0.15656			
285 ->315	0.19244			
Excited State 264:	Singlet-A	4.0654 eV	304.97 nm	f=0.0005
263 ->288	0.10052			
268 ->294	-0.10888			
269 ->294	-0.15375			
270 ->294	0.14856			
270 ->298	0.10291			
270 ->301	-0.12174			
270 ->307	-0.14452			
271 ->294	-0.13302			
273 ->306	0.19769			
275 ->294	-0.10689			
275 ->306	-0.11854			
279 ->307	-0.11874			
284 ->299	-0.15341			

Excited State 265:	Singlet-A	4.0685 eV	304.74 nm	f=0.0031
274 ->301	-0.13104			
275 ->296	-0.12396			
276 ->299	-0.13759			
276 ->307	0.12224			
279 ->300	0.20466			
279 ->302	0.14866			
280 ->310	0.11555			
284 ->300	0.30594			
284 ->303	-0.10724			

Excited State 266:	Singlet-A	4.0723 eV	304.46 nm	f=0.0020
260 ->286	0.11040			
260 ->289	-0.10220			
269 ->294	0.10602			
269 ->295	0.11249			
270 ->294	-0.13511			
271 ->294	0.11595			
273 ->306	0.10620			
274 ->298	-0.10025			
276 ->299	0.16098			
284 ->300	0.16131			

Excited State 267:	Singlet-A	4.0731 eV	304.39 nm	f=0.0021
255 ->287	0.10213			
256 ->286	0.10514			
260 ->286	-0.13048			
260 ->287	-0.12641			
260 ->289	0.11109			
263 ->287	-0.13644			
263 ->288	0.11612			
276 ->299	0.13663			
281 ->314	0.11890			
284 ->299	0.12632			
284 ->300	0.17543			
284 ->314	0.13728			

Excited State 268:	Singlet-A	4.0740 eV	304.33 nm	f=0.0009
265 ->296	0.14381			
268 ->294	-0.12469			
269 ->294	-0.16595			
270 ->294	0.20587			
271 ->294	-0.19377			

275 ->299	-0.11169			
276 ->299	0.10624			
281 ->314	-0.17612			
284 ->300	0.14381			
284 ->314	-0.15336			
Excited State 269:	Singlet-A	4.0772 eV	304.09 nm	f=0.0031
265 ->296	-0.14738			
269 ->294	-0.12797			
270 ->294	0.14840			
271 ->294	-0.16097			
280 ->311	0.10749			
281 ->314	0.29133			
281 ->316	-0.13140			
284 ->314	0.19426			
Excited State 270:	Singlet-A	4.0788 eV	303.97 nm	f=0.0105
266 ->295	-0.11428			
267 ->297	0.13152			
272 ->295	0.39757			
274 ->295	-0.32088			
275 ->297	0.10608			
Excited State 271:	Singlet-A	4.0811 eV	303.80 nm	f=0.0011
269 ->299	-0.11899			
269 ->308	-0.10167			
270 ->299	0.10486			
271 ->294	0.12283			
275 ->301	-0.12460			
275 ->308	-0.15400			
282 ->298	0.10042			
285 ->299	0.23595			
285 ->301	-0.17405			
285 ->309	-0.15137			
285 ->312	0.10134			
Excited State 272:	Singlet-A	4.0839 eV	303.59 nm	f=0.0003
269 ->296	0.22167			
270 ->296	0.37728			
275 ->296	0.42152			
281 ->314	0.11481			
Excited State 273:	Singlet-A	4.0845 eV	303.55 nm	f=0.0059
266 ->295	0.12982			

267 ->297	-0.23259			
272 ->295	0.33535			
274 ->295	-0.19366			
275 ->297	-0.13904			
282 ->313	0.11872			
283 ->299	-0.15132			
283 ->315	0.13299			
Excited State 274:	Singlet-A	4.0880 eV	303.29 nm	f=0.0006
265 ->296	-0.13013			
273 ->306	0.11162			
273 ->307	-0.10849			
281 ->298	0.37707			
281 ->299	0.10499			
281 ->301	-0.17547			
281 ->314	-0.27903			
281 ->316	0.12578			
284 ->314	0.15810			
Excited State 275:	Singlet-A	4.0905 eV	303.10 nm	f=0.0100
267 ->297	0.24020			
271 ->302	0.10300			
272 ->295	0.11907			
272 ->298	-0.11745			
275 ->297	0.11570			
276 ->301	0.15869			
280 ->310	0.10622			
283 ->299	0.10381			
283 ->315	-0.14180			
285 ->313	0.12597			
Excited State 276:	Singlet-A	4.0935 eV	302.88 nm	f=0.0002
267 ->295	0.11109			
273 ->295	0.65280			
276 ->297	-0.12521			
Excited State 277:	Singlet-A	4.0955 eV	302.73 nm	f=0.0030
267 ->297	0.12534			
271 ->302	0.14686			
271 ->303	-0.12515			
272 ->297	-0.12151			
272 ->298	0.11650			
274 ->297	-0.11061			
276 ->297	0.20422			

276 ->301	-0.10170			
279 ->303	-0.14125			
280 ->310	-0.10440			
285 ->313	0.12145			
Excited State 278:	Singlet-A	4.0968 eV	302.64 nm	f=0.0005
267 ->297	-0.10885			
269 ->295	0.16666			
272 ->297	-0.22475			
273 ->295	0.16627			
274 ->297	-0.23889			
276 ->297	0.43026			
Excited State 279:	Singlet-A	4.0980 eV	302.55 nm	f=0.0001
255 ->286	0.24472			
256 ->287	0.13129			
258 ->286	-0.13719			
258 ->288	0.18373			
260 ->287	-0.17874			
260 ->288	-0.18434			
260 ->289	0.15082			
263 ->288	-0.22254			
276 ->297	0.16032			
Excited State 280:	Singlet-A	4.1021 eV	302.24 nm	f=0.0004
260 ->289	0.10653			
267 ->295	-0.25781			
269 ->295	0.33265			
270 ->295	-0.16888			
271 ->294	-0.10194			
274 ->297	0.10881			
276 ->297	-0.12962			
282 ->315	-0.11308			
285 ->315	0.21702			
Excited State 281:	Singlet-A	4.1037 eV	302.13 nm	f=0.0000
269 ->294	-0.23347			
270 ->294	0.27562			
271 ->294	0.56236			
Excited State 282:	Singlet-A	4.1089 eV	301.75 nm	f=0.0004
259 ->286	-0.10485			
262 ->287	0.11040			
265 ->294	0.16955			

272 ->299	-0.14347			
272 ->307	0.10955			
274 ->301	-0.12735			
278 ->298	-0.13093			
279 ->299	-0.10785			
281 ->311	-0.13337			
Excited State 283:	Singlet-A	4.1113 eV	301.57 nm	f=0.0004
265 ->294	0.12997			
269 ->295	0.11037			
270 ->298	0.10105			
278 ->298	0.18926			
279 ->299	0.14794			
279 ->307	0.12304			
284 ->299	0.12315			
284 ->301	0.17988			
Excited State 284:	Singlet-A	4.1149 eV	301.30 nm	f=0.0009
278 ->298	-0.18277			
279 ->299	-0.18071			
279 ->307	-0.13824			
281 ->298	-0.13234			
281 ->299	-0.11140			
281 ->310	-0.10356			
284 ->299	0.17667			
284 ->301	0.30778			
284 ->306	0.15843			
Excited State 285:	Singlet-A	4.1208 eV	300.88 nm	f=0.0023
274 ->306	-0.12315			
276 ->306	0.13716			
280 ->298	0.42031			
280 ->299	0.20689			
280 ->301	-0.15677			
280 ->306	-0.20315			
280 ->307	0.10200			
Excited State 286:	Singlet-A	4.1230 eV	300.71 nm	f=0.0008
266 ->297	-0.11360			
282 ->298	-0.22065			
282 ->299	0.31730			
282 ->315	-0.27887			
284 ->301	0.12103			
285 ->301	-0.11952			

285 ->312	-0.10519			
285 ->315	0.22340			
Excited State 287:	Singlet-A	4.1234 eV	300.69 nm	f=0.0138
262 ->294	0.14555			
265 ->294	0.29509			
272 ->299	0.12739			
274 ->298	-0.11916			
274 ->301	0.16823			
276 ->304	0.13282			
280 ->306	0.14572			
280 ->314	0.13788			
281 ->311	-0.14478			
284 ->311	-0.14007			
Excited State 288:	Singlet-A	4.1294 eV	300.25 nm	f=0.0005
266 ->295	-0.25709			
267 ->297	0.11728			
283 ->299	-0.29846			
283 ->301	0.34479			
283 ->304	0.24636			
283 ->312	0.17472			
Excited State 289:	Singlet-A	4.1308 eV	300.15 nm	f=0.0008
265 ->294	-0.16858			
273 ->300	-0.13167			
273 ->302	-0.13376			
278 ->300	0.14394			
278 ->302	0.13285			
279 ->303	0.18283			
279 ->305	0.12921			
280 ->298	0.13596			
280 ->310	0.10067			
280 ->314	-0.10570			
281 ->299	-0.10437			
281 ->311	0.12146			
284 ->302	0.16855			
284 ->303	0.14107			
285 ->302	0.12259			
285 ->305	-0.11823			
Excited State 290:	Singlet-A	4.1378 eV	299.64 nm	f=0.0002
265 ->296	0.19496			
281 ->298	0.23615			

281 ->299	0.28229			
281 ->301	-0.12980			
281 ->310	0.17037			
281 ->314	0.27862			
281 ->316	-0.11006			
284 ->314	-0.13612			
Excited State 291:	Singlet-A	4.1399 eV	299.48 nm	f=0.0002
283 ->300	0.53379			
283 ->303	-0.31244			
283 ->305	0.23475			
Excited State 292:	Singlet-A	4.1437 eV	299.21 nm	f=0.0051
268 ->300	-0.10655			
278 ->305	-0.12591			
284 ->300	0.13468			
284 ->302	-0.18346			
285 ->300	0.25956			
285 ->302	0.38438			
285 ->305	-0.26506			
Excited State 293:	Singlet-A	4.1481 eV	298.89 nm	f=0.0016
264 ->293	0.19524			
266 ->291	0.11383			
266 ->293	0.28129			
266 ->297	0.18911			
271 ->304	-0.11039			
271 ->309	0.13737			
278 ->304	0.10161			
279 ->301	-0.14969			
285 ->308	-0.10574			
285 ->309	0.13230			
Excited State 294:	Singlet-A	4.1522 eV	298.60 nm	f=0.0004
272 ->300	-0.26231			
272 ->303	0.14997			
274 ->300	0.26452			
274 ->303	-0.20489			
274 ->305	-0.19095			
276 ->300	-0.11977			
276 ->303	0.15309			
276 ->305	0.18917			
280 ->300	0.22502			
280 ->303	-0.14722			

280 ->305	-0.11767			
Excited State 295:	Singlet-A	4.1536 eV	298.50 nm	f=0.0027
264 ->293	-0.12075			
264 ->297	-0.13224			
266 ->297	0.32486			
274 ->297	0.11131			
282 ->299	0.15060			
282 ->315	-0.31639			
285 ->315	-0.23432			
Excited State 296:	Singlet-A	4.1561 eV	298.32 nm	f=0.0000
272 ->296	0.56244			
274 ->296	0.40330			
276 ->296	0.10627			
Excited State 297:	Singlet-A	4.1691 eV	297.39 nm	f=0.0009
262 ->290	-0.11170			
264 ->297	-0.10776			
265 ->292	0.12422			
266 ->297	0.16983			
269 ->298	-0.14715			
278 ->298	0.10714			
279 ->301	0.22048			
279 ->304	-0.12355			
284 ->299	0.10824			
285 ->301	0.16468			
Excited State 298:	Singlet-A	4.1731 eV	297.10 nm	f=0.0004
263 ->292	-0.12698			
272 ->298	-0.14209			
272 ->299	-0.12241			
274 ->301	-0.10721			
274 ->306	-0.10583			
276 ->304	-0.11497			
276 ->306	0.19960			
278 ->300	0.10077			
279 ->303	0.11044			
280 ->310	-0.17366			
284 ->300	-0.10273			
284 ->302	0.23062			
284 ->305	-0.12708			
Excited State 299:	Singlet-A	4.1749 eV	296.97 nm	f=0.0009

263 ->294	0.11954			
268 ->294	0.35504			
269 ->294	-0.28651			
270 ->295	-0.29666			

Excited State 300:	Singlet-A	4.1752 eV	296.95 nm	f=0.0002
269 ->297	-0.27823			
270 ->295	-0.11603			
270 ->297	0.10767			
272 ->297	0.42607			
274 ->297	-0.28312			

Orbital coefficients of atoms corresponding to peaks 1 and 2 in absorption spectrum of cluster 3 in HMP solution

Peak 1: 272→289; 274→289

			272(HOMO-13)
25	S	1S	0.00093
		2S	-0.00361
		2PX	0.08902
		2PY	-0.00214
		2PZ	0.00802
		3S	0.01187
		3PX	-0.23399
		3PY	0.00569
		3PZ	-0.02114
		4S	-0.00828
		4PX	-0.13447
		4PY	0.01411
		4PZ	-0.01279
		5D 0	0.00148
		5D+1	-0.00033
		5D-1	0.00046
		5D+2	0.00077
		5D-2	0.00434
28	S	1S	-0.00104
		2S	0.00373
		2PX	-0.11389
		2PY	-0.01745
		2PZ	0.00418
		3S	-0.01459
		3PX	0.29944

		3PY	0.04474
		3PZ	-0.01091
		4S	0.00001
		4PX	0.17332
		4PY	0.04126
		4PZ	-0.00759
		5D 0	-0.00062
		5D+1	0.00018
		5D-1	-0.00033
		5D+2	-0.00183
		5D-2	0.00491
33	S	1S	-0.00060
		2S	0.00314
		2PX	0.06604
		2PY	-0.08812
		2PZ	-0.00009
		3S	-0.00509
		3PX	-0.17421
		3PY	0.23150
		3PZ	0.00021
		4S	-0.02355
		4PX	-0.08193
		4PY	0.15133
		4PZ	0.00028
		5D 0	-0.00102
		5D+1	-0.00012
		5D-1	0.00005
		5D+2	0.00486
		5D-2	-0.00255
34	S	1S	0.00066
		2S	-0.00326
		2PX	-0.04780
		2PY	-0.07543
		2PZ	-0.00550
		3S	0.00619
		3PX	0.12498
		3PY	0.19850
		3PZ	0.01439
		4S	0.02703
		4PX	0.06241
		4PY	0.12807
		4PZ	0.00979
		5D 0	0.00067
		5D+1	-0.00001

		5D-1	0.00045	
		5D+2	-0.00288	
		5D-2	-0.00443	……
	……			

274(HOMO-11)

25	S	1S	0.00084
		2S	-0.00280
		2PX	0.09676
		2PY	-0.02065
		2PZ	-0.00703
		3S	0.01242
		3PX	-0.25448
		3PY	0.05225
		3PZ	0.01845
		4S	0.01196
		4PX	-0.15516
		4PY	0.04285
		4PZ	0.01218
		5D 0	-0.00079
		5D+1	-0.00005
		5D-1	-0.00050
		5D+2	0.00146
		5D-2	0.00249
26	S	1S	-0.00090
		2S	0.00318
		2PX	-0.09827
		2PY	0.01618
		2PZ	-0.00243
		3S	-0.01290
		3PX	0.25847
		3PY	-0.04102
		3PZ	0.00639
		4S	-0.00512
		4PX	0.15445
		4PY	-0.03727
		4PZ	0.00390
		5D 0	0.00004
		5D+1	0.00005
		5D-1	-0.00011
		5D+2	-0.00131
		5D-2	-0.00328
30	S	1S	-0.00023
		2S	0.00126

		2PX	0.05593
		2PY	0.08484
		2PZ	0.00099
		3S	-0.00163
		3PX	-0.14748
		3PY	-0.22276
		3PZ	-0.00263
		4S	-0.00249
		4PX	-0.08006
		4PY	-0.13912
		4PZ	-0.00140
		5D 0	-0.00086
		5D+1	-0.00012
		5D-1	-0.00013
		5D+2	0.00406
		5D-2	0.00321
34	S	1S	0.00028
		2S	-0.00143
		2PX	-0.05827
		2PY	-0.08272
		2PZ	0.00669
		3S	0.00233
		3PX	0.15436
		3PY	0.21706
		3PZ	-0.01754
		4S	-0.00495
		4PX	0.08230
		4PY	0.13372
		4PZ	-0.01158
		5D 0	0.00104
		5D+1	0.00035
		5D-1	-0.00027
		5D+2	-0.00495
		5D-2	-0.00239

……

289(LUMO+3)

2	W	1S	0.00262
		2S	0.01871
		3S	-0.04145
		4PX	-0.00458
		4PY	-0.00266
		4PZ	0.00143
		5PX	-0.00658

		5PY	0.01363
		5PZ	0.00118
		6PX	0.23642
		6PY	-0.02885
		6PZ	-0.00048
		7D 0	-0.29977
		7D+1	-0.01177
		7D-1	-0.00686
		7D+2	0.33881
		7D-2	-0.31293
		8D 0	-0.15086
		8D+1	-0.00676
		8D-1	-0.00303
		8D+2	0.18262
		8D-2	-0.16186
		9F 0	-0.00010
		9F+1	0.00093
		9F-1	-0.00033
		9F+2	0.00003
		9F-2	0.00002
		9F+3	-0.00024
		9F-3	-0.00087
12	S	1S	-0.00098
		2S	0.00403
		2PX	-0.05217
		2PY	0.02139
		2PZ	0.04078
		3S	-0.01227
		3PX	0.13752
		3PY	-0.05570
		3PZ	-0.10810
		4S	-0.01165
		4PX	0.16261
		4PY	-0.07061
		4PZ	-0.12494
		5D 0	0.02421
		5D+1	-0.01151
		5D-1	0.00582
		5D+2	-0.00795
		5D-2	0.00829
20	S	1S	-0.00091
		2S	0.00385
		2PX	-0.05199
		2PY	0.01884

		2PZ	-0.04040
		3S	-0.01108
		3PX	0.13689
		3PY	-0.04902
		3PZ	0.10706
		4S	-0.01484
		4PX	0.16064
		4PY	-0.06155
		4PZ	0.12433
		5D 0	0.02382
		5D+1	0.01194
		5D-1	-0.00497
		5D+2	-0.00832
		5D-2	0.00750
27	S	1S	-0.00042
		2S	0.00139
		2PX	0.05229
		2PY	0.01341
		2PZ	0.00030
		3S	-0.00659
		3PX	-0.13945
		3PY	-0.03608
		3PZ	-0.00073
		4S	0.00704
		4PX	-0.15348
		4PY	-0.03080
		4PZ	-0.00172
		5D 0	-0.00255
		5D+1	-0.00008
		5D-1	0.00020
		5D+2	-0.01057
		5D-2	0.02299
32	S	1S	-0.00084
		2S	0.00326
		2PX	0.03575
		2PY	-0.04559
		2PZ	-0.00197
		3S	-0.01137
		3PX	-0.09436
		3PY	0.12157
		3PZ	0.00514
		4S	-0.01226
		4PX	-0.10769
		4PY	0.13396

		4PZ	0.00606
		5D 0	-0.00267
		5D+1	0.00080
		5D-1	0.00011
		5D+2	-0.02345
		5D-2	0.00635
3	W	1S	-0.00130
		2S	-0.01089
		3S	0.06833
		4PX	-0.00665
		4PY	0.00525
		4PZ	-0.00030
		5PX	-0.01837
		5PY	-0.00008
		5PZ	0.00023
		6PX	0.06020
		6PY	0.06751
		6PZ	0.00371
		7D 0	0.21276
		7D+1	-0.00315
		7D-1	0.01829
		7D+2	-0.23081
		7D-2	-0.22945
		8D 0	0.12452
		8D+1	-0.00197
		8D-1	0.00868
		8D+2	-0.13523
		8D-2	-0.11192
		9F 0	0.00003
		9F+1	-0.00116
		9F-1	0.00003
		9F+2	-0.00006
		9F-2	-0.00001
		9F+3	-0.00169
		9F-3	-0.00146
15	S	1S	0.00077
		2S	-0.00267
		2PX	0.03780
		2PY	0.01028
		2PZ	-0.02790
		3S	0.01129
		3PX	-0.10005
		3PY	-0.02635

		3PZ	0.07418
		4S	-0.00731
		4PX	-0.12230
		4PY	-0.03992
		4PZ	0.07871
		5D 0	-0.01716
		5D+1	0.00833
		5D-1	0.00296
		5D+2	0.00698
		5D-2	0.00529
18	S	1S	0.00073
		2S	-0.00249
		2PX	0.03607
		2PY	0.01363
		2PZ	0.02718
		3S	0.01092
		3PX	-0.09545
		3PY	-0.03493
		3PZ	-0.07216
		4S	-0.00873
		4PX	-0.11633
		4PY	-0.05201
		4PZ	-0.07617
		5D 0	-0.01667
		5D+1	-0.00797
		5D-1	-0.00409
		5D+2	0.00572
		5D-2	0.00619
25	S	1S	0.00280
		2S	-0.01180
		2PX	-0.06077
		2PY	0.00965
		2PZ	0.00212
		3S	0.03364
		3PX	0.16274
		3PY	-0.02808
		3PZ	-0.00547
		4S	0.02817
		4PX	0.16906
		4PY	-0.00903
		4PZ	-0.00738
		5D 0	0.00343
		5D+1	-0.00050
		5D-1	-0.00103

		5D+2	0.00134
		5D-2	0.01732
34	S	1S	0.00045
		2S	-0.00178
		2PX	-0.01705
		2PY	-0.04014
		2PZ	-0.00225
		3S	0.00614
		3PX	0.04328
		3PY	0.10768
		3PZ	0.00592
		4S	0.01936
		4PX	0.05632
		4PY	0.12006
		4PZ	0.00770
		5D 0	0.00163
		5D+1	0.00068
		5D-1	-0.00068
		5D+2	0.01892
		5D-2	0.00468

……

Peak 2: 272→298

			272(HOMO-13)
25	S	1S	0.00093
		2S	-0.00361
		2PX	0.08902
		2PY	-0.00214
		2PZ	0.00802
		3S	0.01187
		3PX	-0.23399
		3PY	0.00569
		3PZ	-0.02114
		4S	-0.00828
		4PX	-0.13447
		4PY	0.01411
		4PZ	-0.01279
		5D 0	0.00148
		5D+1	-0.00033
		5D-1	0.00046
		5D+2	0.00077
		5D-2	0.00434
28	S	1S	-0.00104
		2S	0.00373

		2PX	-0.11389
		2PY	-0.01745
		2PZ	0.00418
		3S	-0.01459
		3PX	0.29944
		3PY	0.04474
		3PZ	-0.01091
		4S	0.00001
		4PX	0.17332
		4PY	0.04126
		4PZ	-0.00759
		5D 0	-0.00062
		5D+1	0.00018
		5D-1	-0.00033
		5D+2	-0.00183
		5D-2	0.00491
33	S	1S	-0.00060
		2S	0.00314
		2PX	0.06604
		2PY	-0.08812
		2PZ	-0.00009
		3S	-0.00509
		3PX	-0.17421
		3PY	0.23150
		3PZ	0.00021
		4S	-0.02355
		4PX	-0.08193
		4PY	0.15133
		4PZ	0.00028
		5D 0	-0.00102
		5D+1	-0.00012
		5D-1	0.00005
		5D+2	0.00486
		5D-2	-0.00255
34	S	1S	0.00066
		2S	-0.00326
		2PX	-0.04780
		2PY	-0.07543
		2PZ	-0.00550
		3S	0.00619
		3PX	0.12498
		3PY	0.19850
		3PZ	0.01439
		4S	0.02703

		4PX	0.06241
		4PY	0.12807
		4PZ	0.00979
		5D 0	0.00067
		5D+1	-0.00001
		5D-1	0.00045
		5D+2	-0.00288
		5D-2	-0.00443

……

298(LUMO+12)

3	W	1S	-0.00056
		2S	0.00008
		3S	0.01374
		4PX	-0.05883
		4PY	0.08475
		4PZ	0.00169
		5PX	0.04631
		5PY	-0.02207
		5PZ	-0.00132
		6PX	-0.17833
		6PY	-0.01336
		6PZ	0.00200
		7D 0	0.05431
		7D+1	0.00097
		7D-1	-0.00617
		7D+2	-0.23138
		7D-2	0.28735
		8D 0	0.03345
		8D+1	0.00086
		8D-1	-0.00383
		8D+2	-0.16152
		8D-2	0.18868
		9F 0	0.00010
		9F+1	-0.00263
		9F-1	0.00479
		9F+2	-0.00010
		9F-2	0.00011
		9F+3	-0.00036
		9F-3	-0.00193
15	S	1S	0.00019
		2S	-0.00092
		2PX	0.02823
		2PY	-0.04145

		2PZ	-0.00253
		3S	0.00191
		3PX	-0.07539
		3PY	0.11108
		3PZ	0.00720
		4S	0.00901
		4PX	-0.09481
		4PY	0.12959
		4PZ	0.01355
		5D 0	-0.00068
		5D+1	0.01150
		5D-1	-0.02026
		5D+2	0.00747
		5D-2	-0.00142
18	S	1S	0.00012
		2S	-0.00054
		2PX	0.02824
		2PY	-0.04157
		2PZ	0.00076
		3S	0.00133
		3PX	-0.07530
		3PY	0.11127
		3PZ	-0.00248
		4S	0.00605
		4PX	-0.09547
		4PY	0.12996
		4PZ	-0.00734
		5D 0	0.00019
		5D+1	-0.01173
		5D-1	0.02005
		5D+2	0.00749
		5D-2	-0.00131
25	S	1S	-0.00302
		2S	0.01718
		2PX	0.01656
		2PY	-0.04003
		2PZ	-0.00116
		3S	-0.02074
		3PX	-0.04393
		3PY	0.10678
		3PZ	0.00310
		4S	-0.16771
		4PX	-0.04014
		4PY	0.18490

		4PZ	0.00356
		5D 0	-0.00183
		5D+1	0.00019
		5D-1	0.00047
		5D+2	-0.02454
		5D-2	-0.01085
34	S	1S	0.00421
		2S	-0.02414
		2PX	0.04127
		2PY	-0.03690
		2PZ	-0.00047
		3S	0.02814
		3PX	-0.11132
		3PY	0.09932
		3PZ	0.00126
		4S	0.22750
		4PX	-0.17787
		4PY	0.14653
		4PZ	0.00255
		5D 0	0.00517
		5D+1	0.00035
		5D-1	-0.00042
		5D+2	0.00108
		5D-2	0.02449
4	W	1S	0.00023
		2S	-0.00092
		3S	-0.06241
		4PX	0.04078
		4PY	0.09855
		4PZ	-0.00163
		5PX	-0.04079
		5PY	-0.02867
		5PZ	0.00146
		6PX	0.18607
		6PY	-0.02805
		6PZ	-0.00294
		7D 0	0.00137
		7D+1	0.00036
		7D-1	-0.00720
		7D+2	0.24584
		7D-2	0.30836
		8D 0	0.00059
		8D+1	-0.00003

		8D-1	-0.00426
		8D+2	0.17217
		8D-2	0.20011
		9F 0	-0.00009
		9F+1	0.00330
		9F-1	0.00477
		9F+2	0.00013
		9F-2	0.00011
		9F+3	0.00053
		9F-3	-0.00135
17	S	1S	-0.00110
		2S	0.00511
		2PX	-0.02146
		2PY	-0.04740
		2PZ	0.00393
		3S	-0.01153
		3PX	0.05729
		3PY	0.12687
		3PZ	-0.01148
		4S	-0.02980
		4PX	0.07005
		4PY	0.15036
		4PZ	-0.01797
		5D 0	-0.00105
		5D+1	-0.00986
		5D-1	-0.02213
		5D+2	-0.00471
		5D-2	-0.00490
22	S	1S	-0.00102
		2S	0.00468
		2PX	-0.02155
		2PY	-0.04750
		2PZ	-0.00240
		3S	-0.01087
		3PX	0.05744
		3PY	0.12697
		3PZ	0.00739
		4S	-0.02638
		4PX	0.07129
		4PY	0.15064
		4PZ	0.01256
		5D 0	-0.00174
		5D+1	0.01013
		5D-1	0.02201

		5D+2	-0.00471
		5D-2	-0.00482
28	S	1S	0.00321
		2S	-0.01888
		2PX	-0.00965
		2PY	-0.04810
		2PZ	0.00114
		3S	0.01992
		3PX	0.02615
		3PY	0.12825
		3PZ	-0.00304
		4S	0.19096
		4PX	0.00330
		4PY	0.21970
		4PZ	-0.00333
		5D 0	0.00391
		5D+1	-0.00016
		5D-1	0.00042
		5D+2	0.02812
		5D-2	-0.00475
33	S	1S	-0.00399
		2S	0.02309
		2PX	-0.03623
		2PY	-0.03983
		2PZ	0.00017
		3S	-0.02611
		3PX	0.09815
		3PY	0.10750
		3PZ	-0.00043
		4S	-0.22351
		4PX	0.15213
		4PY	0.15539
		4PZ	-0.00159
		5D 0	-0.00260
		5D+1	-0.00021
		5D-1	-0.00037
		5D+2	-0.00631
		5D-2	0.02692

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