Rotation matrix for S_0 to S_1 transition of undeuterated anthranilic acid.

Bold indicates elements with largest absolute values in a row and underline – in a column. Elements are multiplied by 100, only elements with abs. value ≥ 5 are shown

excited state

ground state	271	390	437	548	590	658	772	921	1081	1134	1182	1239	1262	1325	1399	1480	1509	1561	1587	1633	1718	1740	1817	1880	3344	3360	3394	3409	3677	3925	4152	58	110	218	332	443	527	567	635	723	746	811	858	897	1013	
	1S	2S	3S	4S	5S	6S	7S	8S	9S	10S	11S	12S	13S	14S	15S	16S	17S	18S	19S	20S	21S	22S	23S	24S	25S	26S	27S	28S	29S	30S	31S	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A	11A	12A	13A	14A	
272	**99**	10																																											272
394	-10	**99**				6																																							394
446			**99**			-8	5																																						446
552				**98**	10	-15																-5																					552
613			5	-7	**97**	20	-7																																						613
705		-6	7	15	-17	**95**	21																																						705
813			-6	-6	11	-17	**96**		-5		7							-8																										813
927								**99**	6		-7							6																										927
1107								7	**-83**	-36	-6	5	-27	9					5			-26	-8	-6																				1107
1157									-40	**87**	-14	-21	7																																1157
1201							-6	6	-10	12	**94**		-16	-17	6	-7	-9	5				9																							1201
1238									-32	-21	-5	-7	**59**	-24	27	-15	-12	22		6		51	11	7																					1238
1273									-5	19		**96**	**10**				-8	7			-7																							1273
1314											25		61	**65**	-16				9	-7	-7	-30	-5																					1314
1369												5	-38	**68**	**16**	-12		17		10		**52**	14	9																				1369
1426									6					8	**89**		18	-32				-24																						1426
1464															17	**91**	**-26**	25					-9																					1464
1526																10	**82**	**52**	16		-6		6	-9																				1526
1612										-5		-7			9	-19	-9	45	**-77**	-22	12	-19	-17	8																				1612
1651									8						10	-18	-21	30	10	**84**		-30	-8	-7																				1651
1749							6		10	5	-7	-6	-12		15	-21	-36	41	**53**	-45	**14**	-24	15																					1749
1789											5	8			-6	9	9	-6	-6	15	**77**	**-13**	49	27																				1789
1815										6		5		5		-5	9		22		50	14	**-80**	12																				1815
1962																			11		-31	-12		**93**																				1962
3336																									**87**	-22	43	10																	3336
3354																									48	**62**	-61	-13																	3354
3373																									-13	**74**	**66**																		3373
3400																										13	-9	**99**																	3400
3853																													**93**	-37															3853
4000																													37	**93**															4000
4140																															**100**															4140
-183																																**33**	12	-14	-21	18	43	**64**	-19	23	26	19				-183
89																																18	**97**		6		-7	-14								89
164																																**-89**	22	**17**	12		18	26		6	9	9				164
258																																19		**97**	-12	7	6									258
466																																18	-7	6	**95**	**11**	19	7							5		466
582																																8				**-65**	**12**	43	43	-20	-12	-31	-16		-7	582
600																																-5		-6	-12	44	35		-10	-24	**-54**	-51	-9	17	5	600
623																																			-8	-27	**77**	-55			16	7				623
789																																				39			**80**	40	11	-14	9	-9	6	789
844																																				28			6	-48	**58**	-15	-53	-13	-19	844
889																																				15	10	6	31	-45	-37	**70**	-6	-16		889
950																																						7	-7	-27	9	-23	47	**-73**	31	950
1101																																				7			9	-29	15		**64**	29	-62	1101
1117																																							-11	31	-27		-20	-55	**-69**	1117
	271	390	437	548	590	658	772	921	1081	1134	1182	1239	1262	1325	1399	1480	1509	1561	1587	1633	1718	1740	1817	1880	3344	3360	3394	3409	3677	3925	4152	58	110	218	332	443	527	567	635	723	746	811	858	897	1013	