

EPAPS Table 1. RKR Turning Points for the NaK $1^3\Delta$ State Obtained in This Work

v	R_{min} (Å)	R_{max} (Å)	$E(\text{cm}^{-1})$
-0.5	3.8816	3.8816	0.0000
0	3.7318	4.0461	47.2627
1	3.6305	4.1772	141.1014
2	3.5644	4.2733	233.9792
3	3.5127	4.3552	325.8863
4	3.4695	4.4291	416.8111
5	3.4320	4.4977	506.7413
6	3.3986	4.5626	595.6631
7	3.3684	4.6247	683.5614
8	3.3408	4.6848	770.4201
9	3.3153	4.7434	856.2218
10	3.2917	4.8007	940.9478
11	3.2695	4.8572	1024.5781
12	3.2488	4.9131	1107.0918
13	3.2292	4.9686	1188.4664
14	3.2107	5.0238	1268.6785
15	3.1932	5.0789	1347.7031
16	3.1765	5.1342	1425.5144
17	3.1607	5.1897	1502.0851
18	3.1456	5.2455	1577.3866
19	3.1313	5.3019	1651.3894
20	3.1176	5.3589	1724.0625
21	3.1045	5.4167	1795.3738
22	3.0919	5.4754	1865.2898
23	3.0800	5.5351	1933.7761
24	3.0685	5.5961	2000.7968
25	3.0576	5.6584	2066.3148
26	3.0471	5.7222	2130.2919
27	3.0371	5.7877	2192.6886
28	3.0275	5.8551	2253.4642
29	3.0183	5.9246	2312.5767
30	3.0095	5.9965	2369.9830
31	3.0011	6.0709	2425.6386
32	2.9931	6.1482	2479.4979
33	2.9853	6.2287	2531.5142
34	2.9779	6.3127	2581.6393
35	2.9707	6.4007	2629.8238
36	2.9638	6.4932	2676.0174
37	2.9571	6.5907	2720.1682
38	2.9505	6.6939	2762.2233
39	2.9440	6.8035	2802.1285
40	2.9376	6.9206	2839.8283

Includes Y_{00} correction = $-0.0140464 \text{ cm}^{-1}$.