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Accurate characterisation of the C(3)^σ state of the NaRb molecule

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 * List of potential energy grid points for the C(3)^σ state.
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The full data set is represented with a standard deviation of 0.037 cm⁻¹
 The ground state energy levels were calculated from the potential given in
 O. Docenko, M. Tamanis, R. Ferber, A. Pashov, H. Knoeckel, E. Tiemann,
 Phys. Rev. A 69, 042503 (2004).

R (Å)	U(R) (cm ⁻¹)
2.6000	27339.156
2.7190	25761.642
2.8380	24277.932
2.9570	22970.966
3.0760	21903.509
3.1950	21024.166
3.3140	20270.612
3.4330	19631.429
3.5519	19105.284
3.6709	18678.278
3.7899	18338.747
3.9089	18075.017
4.0278	17876.402
4.1468	17733.865
4.2658	17639.271
4.3848	17585.876
4.5038	17568.111
4.6228	17581.281
4.7418	17621.977
4.8815	17699.640
5.0209	17805.681
5.1605	17936.028
5.3001	18086.687
5.4397	18254.406
5.5793	18435.788
5.7188	18627.109
5.8799	18856.610
6.0410	19091.257
6.2020	19326.105
6.3631	19557.231
6.5241	19780.173
6.6852	19990.929
6.8462	20183.582
7.0073	20350.560
7.2342	20519.818
7.4612	20608.871
7.6881	20666.835

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7.9151	20728.386
8.1420	20807.328
8.5707	21017.979
8.9993	21330.484
9.4280	21740.865
9.8567	21910.956
10.2853	21950.712
10.7140	21968.140
11.1427	21976.325
11.5700	21980.261
12.0000	21982.330
12.4300	21983.475

long range extension:

$$E(R) = De - C6/R^6 - C8/R^8 - C10/R^{10} \text{ for } R > RO$$

De	21986.672 cm ⁻¹
RO	12.11009 Å
C6	-2.429E+6 Å ⁶ cm ⁻¹
C8	2.1416E+9 Å ⁸ cm ⁻¹
C10	9.36942E+9 Å ¹⁰ cm ⁻¹