

Measurement and revised analysis of the torsional combination band
of the nonpolar N2O dimer at 2249 cm⁻¹

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Table A-1. Observed and calculated transitions of the N2O dimer
(Obs, Calc, and Obs-Calc in units of 1/cm)

J'	Ka'	Kc'	J''	Ka''	Kc''	Obs	Calc	Obs-Calc	Weight
3	2	2	4	3	2	2247.6450	2247.6449	0.0001	0.2
3	2	1	4	3	1	2247.6461	2247.6462	-0.0001	0.2
8	1	7	9	2	7	2247.6921	2247.6920	0.0002	1.0
6	1	6	7	2	6	2247.7430	2247.7429	0.0001	1.0
2	2	0	3	3	0	2247.7559	2247.7561	-0.0002	1.0
8	0	8	9	1	8	2247.8640	2247.8639	0.0001	1.0
5	1	5	6	2	5	2247.8817	2247.8817	0.0000	1.0
6	1	5	7	2	5	2247.9016	2247.9017	-0.0001	1.0
5	1	4	6	2	4	2248.0013	2248.0010	0.0003	1.0
4	1	4	5	2	4	2248.0159	2248.0157	0.0002	1.0
7	0	7	8	1	7	2248.0320	2248.0320	0.0000	0.2
7	2	6	7	3	4	2248.0688	2248.0688	0.0000	0.2
6	2	5	6	3	3	2248.0761	2248.0756	0.0005	0.2
5	2	4	5	3	2	2248.0802	2248.0800	0.0002	1.0
4	2	3	4	3	1	2248.0831	2248.0829	0.0003	1.0
4	2	2	4	3	2	2248.0871	2248.0872	-0.0001	0.2
5	2	3	5	3	3	2248.0903	2248.0901	0.0002	1.0
6	2	4	6	3	4	2248.0958	2248.0957	0.0002	1.0
4	1	3	5	2	3	2248.0990	2248.0988	0.0003	1.0
7	2	5	7	3	5	2248.1052	2248.1048	0.0004	1.0
3	1	3	4	2	3	2248.1452	2248.1449	0.0003	1.0
6	0	6	7	1	6	2248.1917	2248.1916	0.0002	1.0
3	1	2	4	2	2	2248.1967	2248.1966	0.0002	1.0
2	1	2	3	2	2	2248.2693	2248.2692	0.0001	1.0
2	1	1	3	2	1	2248.2960	2248.2958	0.0002	1.0
5	0	5	6	1	5	2248.3429	2248.3429	0.0000	1.0
1	1	1	2	2	1	2248.3888	2248.3888	0.0000	1.0
1	1	0	2	2	0	2248.3978	2248.3978	0.0000	1.0
7	1	7	7	2	5	2248.4362	2248.4355	0.0007	1.0
4	0	4	5	1	4	2248.4871	2248.4868	0.0003	1.0
5	1	5	5	2	3	2248.5281	2248.5280	0.0001	1.0
4	1	4	4	2	2	2248.5593	2248.5591	0.0002	1.0
3	1	3	3	2	1	2248.5822	2248.5821	0.0001	1.0
2	1	2	2	2	0	2248.5984	2248.5982	0.0002	1.0
3	0	3	4	1	3	2248.6240	2248.6239	0.0001	1.0
2	1	1	2	2	1	2248.6267	2248.6267	0.0000	1.0
3	1	2	3	2	2	2248.6401	2248.6400	0.0001	1.0
4	1	3	4	2	3	2248.6575	2248.6576	-0.0001	1.0
5	1	4	5	2	4	2248.6795	2248.6795	0.0000	1.0
7	1	6	7	2	6	2248.7351	2248.7351	0.0000	1.0
2	0	2	3	1	2	2248.7548	2248.7549	-0.0001	1.0
8	1	7	8	2	7	2248.7681	2248.7683	-0.0002	1.0
9	1	8	9	2	8	2248.8046	2248.8046	0.0001	1.0
1	0	1	2	1	1	2248.8799	2248.8802	-0.0003	1.0
2	0	2	2	1	2	2249.1296	2249.1293	0.0003	0.1
3	0	3	3	1	3	2249.1433	2249.1429	0.0004	0.2
4	0	4	4	1	4	2249.1603	2249.1601	0.0002	0.2
5	0	5	5	1	5	2249.1805	2249.1800	0.0005	0.2
3	1	2	4	0	4	2249.1836	2249.1837	-0.0001	0.1
6	0	6	6	1	6	2249.2020	2249.2017	0.0004	0.1
7	0	7	7	1	7	2249.2241	2249.2240	0.0001	1.0
8	0	8	8	1	8	2249.2459	2249.2462	-0.0003	1.0
9	0	9	9	1	9	2249.2672	2249.2671	0.0001	0.1

1	1	0	2	0	2	2249.3764	2249.3765	-0.0001	0.1
3	0	3	2	1	1	2249.4268	2249.4266	0.0002	0.1
10	1	10	10	0	10	2249.4301	2249.4301	0.0000	0.1
9	1	9	9	0	9	2249.4463	2249.4461	0.0002	1.0
8	1	8	8	0	8	2249.4644	2249.4646	-0.0002	1.0
7	1	7	7	0	7	2249.4845	2249.4848	-0.0003	1.0
6	1	6	6	0	6	2249.5057	2249.5060	-0.0003	1.0
4	0	4	3	1	2	2249.5177	2249.5178	-0.0001	0.2
5	1	5	5	0	5	2249.5265	2249.5268	-0.0003	1.0
4	1	4	4	0	4	2249.5461	2249.5463	-0.0002	1.0
3	1	3	3	0	3	2249.5630	2249.5633	-0.0003	1.0
4	2	3	5	1	5	2249.5687	2249.5685	0.0002	1.0
2	1	2	2	0	2	2249.5767	2249.5769	-0.0002	1.0
1	1	1	1	0	1	2249.5862	2249.5863	-0.0001	1.0
5	0	5	4	1	3	2249.6011	2249.6014	-0.0003	0.2
6	0	6	5	1	4	2249.6762	2249.6765	-0.0003	0.2
1	1	0	0	0	0	2249.7053	2249.7055	-0.0002	1.0
7	0	7	6	1	5	2249.7418	2249.7420	-0.0002	1.0
9	2	8	9	1	8	2249.8205	2249.8199	0.0006	0.2
2	1	1	1	0	1	2249.8241	2249.8242	-0.0001	1.0
8	2	7	8	1	7	2249.8616	2249.8617	-0.0001	0.2
7	2	6	7	1	6	2249.9000	2249.9001	-0.0001	0.2
6	2	5	6	1	5	2249.9344	2249.9345	-0.0001	1.0
3	1	2	2	0	2	2249.9476	2249.9476	0.0000	1.0
5	2	4	5	1	4	2249.9644	2249.9645	-0.0001	1.0
4	2	3	4	1	3	2249.9897	2249.9899	-0.0002	1.0
3	2	2	3	1	2	2250.0103	2250.0104	-0.0001	1.0
2	2	1	2	1	1	2250.0259	2250.0259	0.0000	1.0
2	2	0	2	1	2	2250.0563	2250.0564	-0.0001	1.0
3	2	1	3	1	3	2250.0722	2250.0723	-0.0001	1.0
4	1	3	3	0	3	2250.0759	2250.0760	-0.0001	1.0
4	2	2	4	1	4	2250.0948	2250.0950	-0.0002	1.0
5	2	3	5	1	5	2250.1252	2250.1255	-0.0003	1.0
6	2	4	6	1	6	2250.1652	2250.1653	-0.0001	1.0
5	1	4	4	0	4	2250.2099	2250.2101	-0.0002	1.0
7	2	5	7	1	7	2250.2156	2250.2158	-0.0002	1.0
2	2	0	1	1	0	2250.2559	2250.2558	0.0001	1.0
2	2	1	1	1	1	2250.2657	2250.2656	0.0001	1.0
8	2	6	8	1	8	2250.2787	2250.2784	0.0003	1.0
6	1	5	5	0	5	2250.3504	2250.3505	-0.0001	1.0
3	2	1	2	1	1	2250.3559	2250.3560	-0.0001	1.0
3	2	2	2	1	2	2250.3849	2250.3849	0.0000	1.0
8	3	6	8	2	6	2250.4140	2250.4139	0.0001	1.0
7	3	5	7	2	5	2250.4329	2250.4329	0.0000	1.0
4	3	2	4	2	2	2250.4610	2250.4608	0.0002	1.0
7	3	4	7	2	6	2250.4716	2250.4719	-0.0003	1.0
7	1	6	6	0	6	2250.4979	2250.4981	-0.0002	1.0
4	2	3	3	1	3	2250.5089	2250.5089	0.0000	1.0
5	2	3	4	1	3	2250.5468	2250.5469	-0.0001	1.0
5	2	4	4	1	4	2250.6379	2250.6379	0.0001	1.0
6	2	4	5	1	4	2250.6399	2250.6401	-0.0002	1.0
8	1	7	7	0	7	2250.6536	2250.6537	-0.0001	1.0
7	2	5	6	1	5	2250.7337	2250.7338	-0.0001	1.0
6	2	5	5	1	5	2250.7715	2250.7716	-0.0001	1.0
3	3	0	2	2	0	2250.7945	2250.7945	0.0000	1.0
9	1	8	8	0	8	2250.8182	2250.8181	0.0001	1.0
8	2	6	7	1	6	2250.8299	2250.8295	0.0004	0.2
4	3	2	3	2	2	2250.9038	2250.9043	-0.0005	0.2
7	2	6	6	1	6	2250.9102	2250.9102	0.0000	1.0
9	2	7	8	1	7	2250.9289	2250.9289	0.0001	1.0
10	1	9	9	0	9	2250.9914	2250.9915	-0.0001	1.0
5	3	2	4	2	2	2251.0100	2251.0097	0.0003	1.0
10	2	8	9	1	8	2251.0333	2251.0332	0.0001	1.0
8	2	7	7	1	7	2251.0535	2251.0537	-0.0002	1.0
6	3	3	5	2	3	2251.1144	2251.1145	-0.0001	1.0

6	3	4	5	2	4	2251.1250	2251.1249	0.0002	1.0
11	1	10	10	0	10	2251.1738	2251.1738	0.0000	1.0
9	2	8	8	1	8	2251.2020	2251.2021	-0.0001	1.0
7	3	4	6	2	4	2251.2163	2251.2163	0.0000	1.0
7	3	5	6	2	5	2251.2366	2251.2366	0.0001	1.0
12	2	10	11	1	10	2251.2615	2251.2615	0.0000	1.0
4	4	0	3	3	0	2251.3034	2251.3034	0.0000	1.0
8	3	5	7	2	5	2251.3143	2251.3143	0.0000	1.0
8	3	6	7	2	6	2251.3498	2251.3497	0.0001	1.0
9	3	6	8	2	6	2251.4080	2251.4079	0.0001	1.0
5	4	2	4	3	2	2251.4122	2251.4122	0.0000	1.0
9	3	7	8	2	7	2251.4646	2251.4648	-0.0002	1.0
10	3	7	9	2	7	2251.4973	2251.4969	0.0005	0.2
6	4	2	5	3	2	2251.5205	2251.5204	0.0001	1.0
10	3	8	9	2	8	2251.5822	2251.5822	0.0000	1.0
7	4	4	6	3	4	2251.6285	2251.6287	-0.0002	1.0
