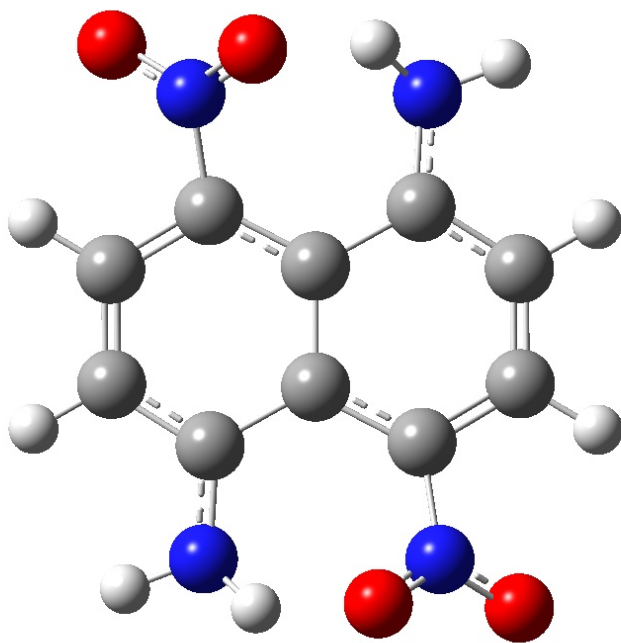
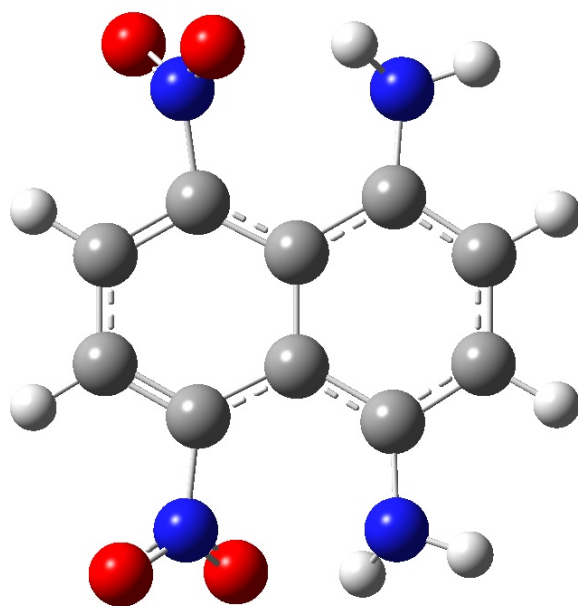


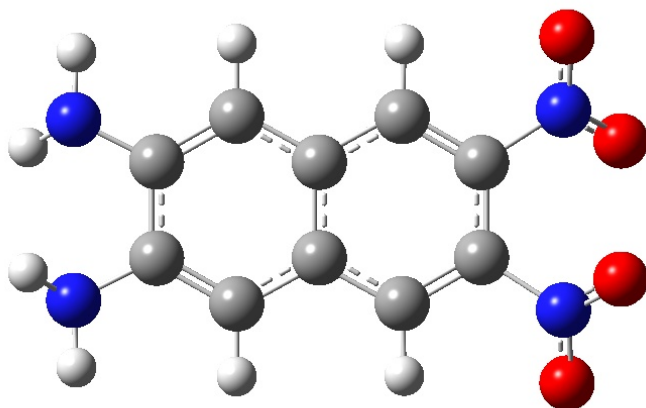
1,5-diamino-4,8-dinitronaphthalene



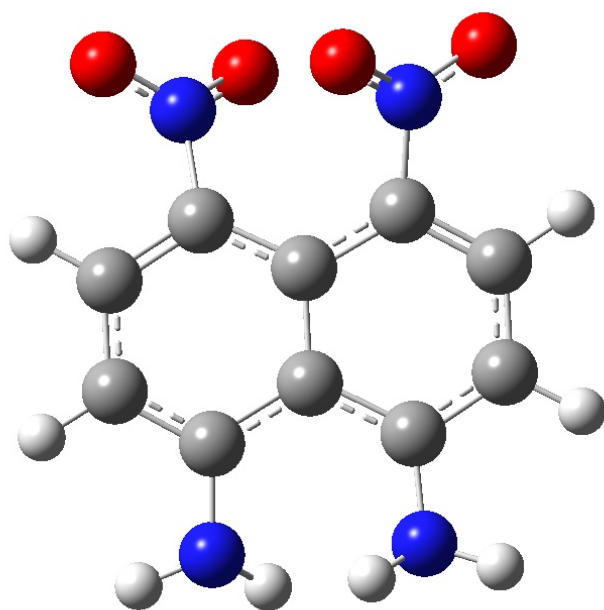
1,4-diamino-5,8-dinitronaphthalene



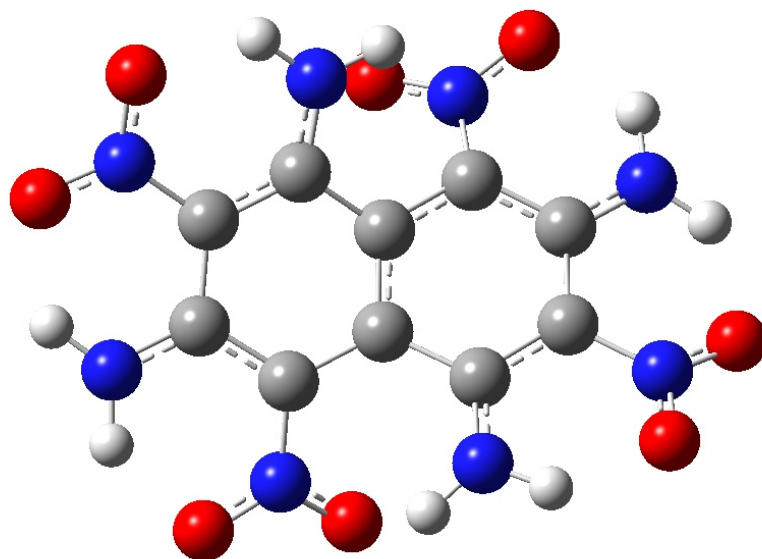
2,3-diamino-6,7-dinitronaphthalene



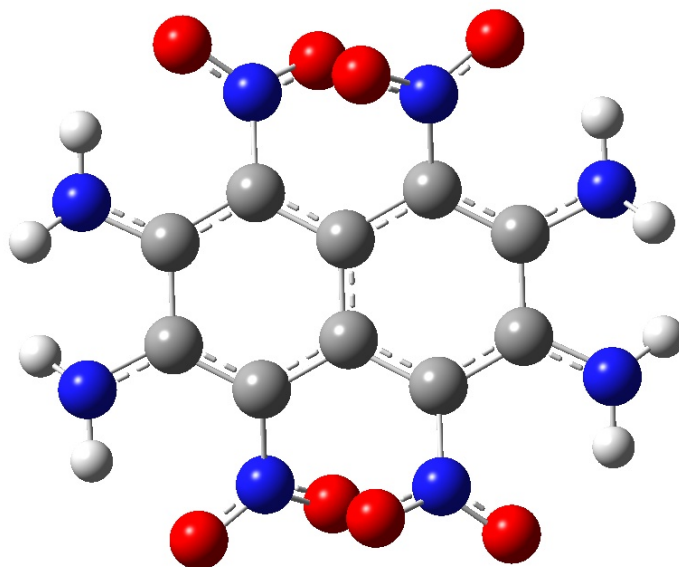
1,8-diamino-4,5-dinitronaphthalene



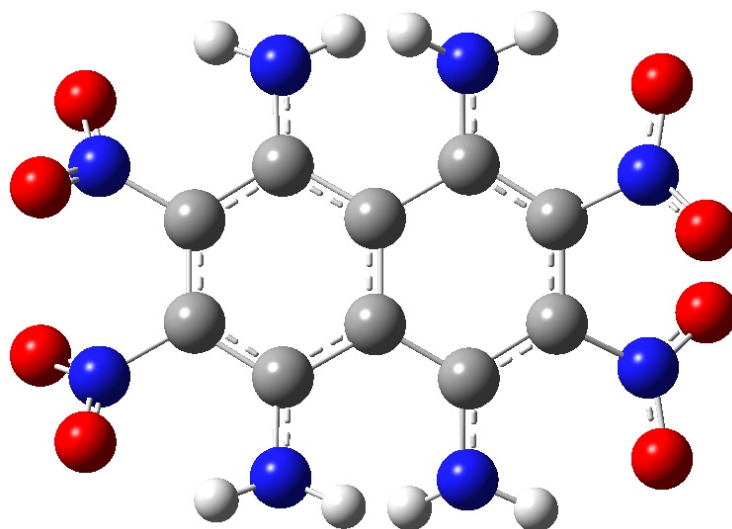
1,3,5,7-tetraamino-2,4,6,8-tetranitronaphthalene



2,3,6,7-tetraamino-1,4,5,8-tetranitronaphthalene



1,4,5,8-tetraamino-2,3,6,7-tetranitronaphthalene



1,3,5,7-tetramine-2,4,6,8-tetranitronaphthalene

	Frequency	Intensity
1.	30.4134	0.1718
2.	39.5065	0.0873
3.	53.3746	0.1568
4.	68.4031	2.5157
5.	72.0861	1.9439
6.	73.2060	1.1430
7.	84.7194	3.2232
8.	95.9851	0.3423
9.	121.3115	0.3684
10.	159.7861	4.8677
11.	205.3669	2.3868
12.	229.9521	3.7041
13.	249.2956	1.6024
14.	251.2148	7.5755
15.	262.2663	3.5838
16.	272.1164	22.8418
17.	310.8632	0.3725
18.	328.8008	1.5891
19.	350.2952	6.1061
20.	374.1621	2.9937
21.	390.6598	0.9192
22.	394.3207	7.4824
23.	414.1420	5.3621
24.	418.5473	15.9766
25.	430.3376	1.0011
26.	436.9166	14.6688
27.	459.7977	10.7640
28.	471.7457	16.6951
29.	478.7902	2.5134
30.	487.5678	12.9389
31.	514.1170	82.0462
32.	525.2813	28.9474
33.	545.5705	183.2263
34.	548.8934	49.5951
35.	578.3555	159.8023
36.	595.5730	78.5745
37.	662.6246	18.5253
38.	668.4834	19.4906
39.	675.5649	9.0817
40.	685.3070	22.6329
41.	686.8113	7.8765
42.	697.2660	26.8735

43.	706.7397	14.0333
44.	712.9433	3.2247
45.	730.4695	49.9753
46.	735.9263	52.2778
47.	742.0534	7.7865
48.	750.3533	8.2845
49.	758.5375	13.6476
50.	760.8794	31.3921
51.	763.6304	17.7732
52.	769.3020	26.4024
53.	789.3568	20.6825
54.	827.5651	6.7088
55.	861.2244	23.5691
56.	909.0887	43.6323
57.	923.1117	1.0265
58.	1041.2321	61.2431
59.	1054.0289	6.7451
60.	1100.4391	98.1880
61.	1113.3933	8.7532
62.	1143.3887	2.3802
63.	1176.0898	34.3345
64.	1215.7423	4.6174
65.	1216.8378	18.4054
66.	1287.4798	822.3435
67.	1300.2230	77.2049
68.	1318.6824	201.2617
69.	1329.5913	1254.2241
70.	1334.3937	204.5727
71.	1356.4782	131.7511
72.	1371.4839	88.6448
73.	1405.2660	3.7244
74.	1421.1365	22.0945
75.	1451.1436	82.8823
76.	1484.0851	4.8375
77.	1491.7079	10.9725
78.	1512.3835	433.8174
79.	1528.1007	10.9024
80.	1553.4000	34.0511
81.	1565.7777	104.0846
82.	1577.4328	137.1294
83.	1614.8889	21.8046
84.	1617.8016	61.8663
85.	1635.8255	1279.8294
86.	1644.1709	320.0632

87.	1655.7449	133.2147
88.	1668.1470	62.6768
89.	3457.5154	102.6494
90.	3473.0991	147.0840
91.	3488.0107	103.9191
92.	3496.3822	189.1079
93.	3606.8822	281.2041
94.	3639.9255	146.3891
95.	3646.5803	284.6277
96.	3712.1147	101.9080

2,3,6,7-tetramine-1,4,5,8-tetranitronaphthalene

	Frequency	Intensity
1.	38.8683	0.0033
2.	53.0906	13.5590
3.	66.2494	0.0000
4.	92.7355	0.0000
5.	99.0647	6.6213
6.	106.1005	6.9716
7.	111.2667	0.6057
8.	124.4578	0.0000
9.	131.5344	0.7276
10.	147.7013	0.0000
11.	197.1628	0.1658
12.	201.5828	0.0000
13.	205.7789	0.0000
14.	232.3607	25.2473
15.	252.4020	0.0000
16.	269.0887	0.0000
17.	319.2933	6.7627
18.	320.6895	18.9963
19.	331.8343	0.0000
20.	344.5583	0.0000
21.	354.8612	13.3482
22.	367.6079	50.7247
23.	370.9078	0.0013
24.	385.3364	0.0001
25.	408.1631	40.1783
26.	413.1724	0.0001
27.	422.1862	32.5182
28.	448.7765	0.0000
29.	452.3325	5.7704
30.	458.4707	24.7510
31.	463.7054	0.0000
32.	472.1959	0.0001
33.	519.0239	2.4378
34.	565.5435	0.0000
35.	610.5475	53.1228
36.	627.5441	0.0004
37.	640.7703	66.4052
38.	651.8569	52.4569
39.	656.0918	0.0025
40.	667.1703	2.3301
41.	668.4175	557.7526
42.	706.2326	0.1369

43.	708.2009	203.2509
44.	725.5299	258.3412
45.	729.3132	0.0002
46.	743.0633	26.5428
47.	749.2642	0.0008
48.	765.3934	331.2044
49.	766.8584	0.0045
50.	772.2732	124.3436
51.	776.9918	0.0060
52.	806.2357	0.0000
53.	814.4599	4.8321
54.	829.7675	0.0000
55.	847.1542	7.2722
56.	890.9987	140.4913
57.	976.7795	0.0000
58.	1004.3128	15.6015
59.	1013.3322	0.0000
60.	1097.0196	0.0000
61.	1144.6776	0.0001
62.	1151.0607	37.1584
63.	1187.1303	43.3772
64.	1215.1558	0.0000
65.	1257.7705	5.9724
66.	1302.7595	0.0011
67.	1311.8293	274.8787
68.	1328.2424	0.0008
69.	1342.6007	282.2052
70.	1363.9908	0.0001
71.	1380.0107	165.5549
72.	1394.7238	867.6407
73.	1398.3268	0.0012
74.	1466.1386	0.0000
75.	1487.6954	48.8133
76.	1504.1898	0.0005
77.	1510.5483	46.7401
78.	1555.1639	49.4811
79.	1561.9991	0.0005
80.	1582.5950	0.0004
81.	1611.1751	1467.0967
82.	1614.5248	0.0027
83.	1633.9852	16.4865
84.	1644.2759	0.0000
85.	1653.6832	0.0003
86.	1658.7060	50.2074

87.	1677.6345	0.0034
88.	1680.2363	74.3272
89.	3515.4066	136.8831
90.	3515.9963	0.1146
91.	3543.2908	173.6623
92.	3544.6046	0.0001
93.	3636.6588	54.5666
94.	3636.7112	84.2390
95.	3666.5602	53.7597
96.	3666.6907	81.5686

1,4,5,8-tetranitro-2,3,6,7-tetranitronaphthalene

	Frequency	Intensity
1.	31.4932	11.4113
2.	4059.83	3.0340
3.	42.3446	1.7336
4.	62.0797	4.8360
5.	72.5544	0.0394
6.	89.2171	2.9209
7.	116.7173	8.8358
8.	129.6138	12.0520
9.	147.1102	3.7838
10.	152.6038	1.7265
11.	180.8522	0.7437
12.	186.2571	16.6370
13.	205.5026	0.2205
14.	219.4551	0.2961
15.	226.2110	24.4522
16.	263.2927	0.0907
17.	284.5742	34.2138
18.	316.0723	30.8900
19.	326.3950	6.6988
20.	333.3864	120.5693
21.	335.9334	21.8748
22.	364.4526	0.5963
23.	367.1971	41.8308
24.	388.0944	89.8082
25.	409.3638	11.9094
26.	419.0105	1.9674
27.	433.3249	5.1588
28.	459.0800	0.2204
29.	467.2347	10.0790
30.	483.2855	6.7794
31.	491.8957	1.4794
32.	501.0683	0.2118
33.	522.0129	11.8270
34.	575.0599	1.2424
35.	587.9418	80.0360
36.	588.3113	13.1268
37.	634.6152	134.0569
38.	639.3706	1.8122
39.	654.9516	23.0439
40.	668.2056	8.9811
41.	702.8630	2.3049
42.	713.1645	1.6608

43.	713.5831	64.7806
44.	743.0427	0.4578
45.	749.4886	2.8542
46.	750.8841	47.7703
47.	763.3186	461.3383
48.	768.5709	58.7071
49.	769.2205	42.1162
50.	781.5753	10.2756
51.	786.4197	1.9274
52.	800.3527	39.9768
53.	817.3101	13.1996
54.	824.1202	16.0069
55.	852.9203	179.8578
56.	919.2337	5.1271
57.	975.9436	7.9657
58.	984.0580	3.0487
59.	1025.4950	1.0212
60.	1091.3669	180.8960
61.	1140.7001	22.0436
62.	1150.4044	7.2727
63.	1195.8889	7.3198
64.	1218.3771	36.5445
65.	1269.6004	0.7316
66.	1286.6209	1218.4581
67.	1312.2383	22.3231
68.	1336.2938	108.4122
69.	1360.8589	54.2680
70.	1362.7394	70.7406
71.	1375.9302	574.0865
72.	1401.3099	88.6064
73.	1418.8994	119.1374
74.	1436.4591	22.3189
75.	1437.6824	0.0890
76.	1467.2874	175.7930
77.	1532.9020	242.7679
78.	1560.1351	104.7409
79.	1581.4346	124.8152
80.	1586.9202	1.6414
81.	1617.1951	257.2973
82.	1625.1904	950.5171
83.	1632.2695	22.0748
84.	1654.5113	9.9369
85.	1655.4433	111.3338
86.	1671.3666	20.4702

87.	1672.1362	11.2264
88.	1677.6872	0.2240
89.	3483.8529	104.0682
90.	3483.9313	59.1854
91.	3536.1641	119.1024
92.	3539.1392	25.9742
93.	3642.8837	11.1482
94.	3643.4626	139.1565
95.	3655.7473	3.7513
96.	3656.4171	171.9173

1,8-diamino-4,5-dinitronaphthalene

	Frequency	Intensity
1.	47.5357	0.0379
2.	63.1648	0.0734
3.	74.0009	0.2358
4.	102.6952	0.1079
5.	151.2947	0.3218
6.	160.0042	0.4610
7.	194.1119	6.5182
8.	199.7773	1.0972
9.	260.1902	17.4221
10.	291.1447	0.7413
11.	291.5351	0.1699
12.	312.4009	0.5060
13.	331.8816	4.5689
14.	335.7062	1.0345
15.	384.8626	2.6321
16.	431.0620	0.1626
17.	438.6372	16.2065
18.	449.1279	0.1200
19.	487.3493	2.1463
20.	498.6422	4.3553
21.	555.1771	27.3381
22.	576.9497	15.9451
23.	636.6030	10.3539
24.	639.8553	8.864
25.	669.6800	38.8287
26.	686.5276	194.8409
27.	689.6770	174.1981
28.	734.7433	2.1809
29.	737.7482	45.0315
30.	761.4223	443.2664
31.	764.1444	13.2799
32.	778.0354	41.7405
33.	787.8192	10.1629
34.	843.8431	27.6977
35.	845.4822	18.7103
36.	854.3304	8.9166
37.	855.5258	42.0484
38.	899.2618	34.0963
39.	922.6039	6.1831
40.	932.7138	35.3681
41.	1055.0692	4.6537
42.	1128.4163	0.1679

43.	1131.8798	0.2333
44.	1160.9589	49.8236
45.	1211.7786	25.1438
46.	1234.4328	25.2695
47.	1277.0904	0.0725
48.	1295.1720	0.1162
49.	1333.2259	131.7668
50.	1349.2289	1.1860
51.	1391.9672	181.0549
52.	1407.2784	650.9901
53.	1437.3222	13.3933
54.	1463.1349	1.3227
55.	1477.3410	14.1385
56.	1513.8965	179.0681
57.	1564.7813	178.6605
58.	1622.2029	4.0742
59.	1625.5933	145.7725
60.	1634.0433	186.0028
61.	1660.8286	88.0139
62.	1660.8774	38.6471
63.	1668.6536	85.8162
64.	1695.8246	100.9079
65.	3181.4822	16.2923
66.	3183.2181	7.1373
67.	3224.4514	0.5056
68.	3225.808	0.1587
69.	3534.9089	12.1392
70.	3537.2684	45.8745
71.	3648.4444	36.0084
72.	3650.6511	0.5235

2,3-diamino-6,7-dinitronaphthalene

	Frequency	Intensity
1.	53.4957	0.0017
2.	79.3426	0.5461
3.	96.0971	0.4814
4.	102.4534	2.3434
5.	125.8723	0.0942
6.	167.3423	2.6489
7.	213.2454	0.5308
8.	236.9451	57.5105
9.	247.8367	9.9493
10.	287.1178	0.8632
11.	297.9277	5.5287
12.	311.4051	27.7387
13.	348.7037	0.4989
14.	370.3800	0.1344
15.	392.1855	2.9065
16.	415.0595	0.0039
17.	450.6663	0.7313
18.	481.0457	0.8773
19.	505.7716	26.3630
20.	544.3041	5.4633
21.	570.9953	3.0879
22.	583.9172	73.6242
23.	632.0421	20.0094
24.	633.8455	94.8466
25.	663.8149	9.9761
26.	668.5820	26.3834
27.	682.4333	6.7233
28.	724.7308	39.6599
29.	744.8511	32.3312
30.	771.6579	60.3595
31.	787.5240	5.2957
32.	791.4239	16.7921
33.	819.5905	14.8753
34.	828.8271	207.2561
35.	836.9671	160.6394
36.	840.0128	62.3186
37.	888.6657	75.6931
38.	952.8669	1.5762
39.	964.5947	3.2496
40.	970.0697	0.4593
41.	1081.0713	28.2915
42.	1102.0966	3.3871

43.	1165.4924	79.1356
44.	1168.7192	7.5271
45.	1196.9579	13.7164
46.	1199.7874	0.0005
47.	1223.3601	1.617
48.	1297.1577	39.2517
49.	1316.8812	0.0026
50.	1362.4334	5.8552
51.	1377.1642	68.7845
52.	1397.2928	18.1883
53.	1399.7590	746.7251
54.	1440.1407	25.8541
55.	1454.4323	7.3142
56.	1489.0190	11.6444
57.	1575.3954	4.4395
58.	1617.2258	22.9276
59.	1620.0945	203.9534
60.	1634.4580	276.6481
61.	1654.1459	2.6732
62.	1656.6873	164.361
63.	1673.5300	162.2109
64.	1675.7859	193.4457
65.	3191.4449	10.6439
66.	3191.4899	13.9918
67.	3239.8603	1.5103
68.	3239.9569	1.2333
69.	3539.6250	67.1483
70.	3547.0838	16.9517
71.	3651.8646	57.4541
72.	3654.6649	0.2821

1,4-diamino-5,8-dinitronaphthalene

	Frequency	Intensity
1.	39.2784	4.5243
2.	74.4559	4.0949
3.	78.7686	1.0662
4.	104.9883	0.5380
5.	122.6903	0.1171
6.	184.8219	3.7529
7.	238.4166	5.4881
8.	246.4152	5.0009
9.	259.3131	2.7602
10.	312.1970	8.2998
11.	340.3051	2.4058
12.	347.5447	8.7400
13.	360.7442	0.5240
14.	399.7242	0.0045
15.	422.4092	0.0008
16.	458.3639	4.6316
17.	489.3688	15.1920
18.	506.0617	15.1121
19.	522.8422	12.1766
20.	536.1715	4.9519
21.	539.2689	28.1710
22.	539.5235	2.2768
23.	624.7096	53.4567
24.	641.0844	186.0115
25.	646.4330	363.0389
26.	654.9090	17.1217
27.	686.7254	7.1280
28.	686.7578	12.6915
29.	717.4921	1.1302
30.	755.9515	28.4992
31.	768.4861	103.0845
32.	774.0150	36.5101
33.	785.9839	14.4848
34.	825.2848	2.2249
35.	839.2678	0.2085
36.	841.7359	45.4740
37.	882.6676	27.5835
38.	961.0827	0.0819
39.	964.6841	6.4710
40.	968.6381	2.3031
41.	1065.5609	4.2602
42.	1098.9020	0.8214

43.	1128.7998	14.5112
44.	1204.4049	3.4206
45.	1207.3208	29.2085
46.	1214.4357	168.3437
47.	1215.3721	0.1138
48.	1296.8676	19.9777
49.	1351.3594	274.8337
50.	1354.7460	1042.9568
51.	1355.2046	54.4452
52.	1388.4157	147.7535
53.	1389.4110	0.0741
54.	1437.0193	1.1917
55.	1447.8973	110.8340
56.	1488.8809	0.7033
57.	1567.8440	127.8408
58.	1577.9176	297.7321
59.	1599.6555	258.1630
60.	1618.4866	86.2006
61.	1626.7563	5.1727
62.	1645.5184	17.1683
63.	1689.7601	290.0471
64.	1694.6466	5.4889
65.	3193.2085	21.9672
66.	3193.4498	0.4614
67.	3245.4983	2.2090
68.	3245.6043	0.0006
69.	3494.6878	17.7722
70.	3500.2460	202.9361
71.	3659.0648	6.3772
72.	3659.0827	105.7707

1,5-diamino-4,8-dinitronaphthalene

	Frequency	Intensity
1.	41.0249	0.0012
2.	58.6065	4.7353
3.	74.3597	1.2090
4.	109.5582	0.3790
5.	120.6382	0.1903
6.	199.5108	7.8264
7.	215.1836	0.2782
8.	220.5454	7.2608
9.	251.0237	1.2326
10.	286.6760	0.7018
11.	301.2299	20.0177
12.	327.6463	5.4125
13.	353.5724	0.8825
14.	363.0221	0.1126
15.	397.8254	7.3081
16.	449.4063	24.3997
17.	453.6032	0.0762
18.	459.3110	30.3301
19.	470.5175	2.8073
20.	514.7189	0.6628
21.	549.8294	0.2557
22.	572.0809	1.9607
23.	572.2325	5.4553
24.	624.5999	17.8810
25.	660.6928	0.0449
26.	687.1681	245.5186
27.	704.5820	197.2348
28.	721.7936	0.0659
29.	756.6625	5.2119
30.	772.6800	1.6516
31.	777.9311	97.9601
32.	787.3901	1.3541
33.	790.5327	7.2518
34.	815.5498	30.8189
35.	840.8583	90.3041
36.	857.5107	9.0606
37.	882.5069	41.1922
38.	925.9272	0.0002
39.	938.6973	0.4258
40.	952.7321	0.1276
41.	1067.5381	0.1538
42.	1116.8512	6.8173

43.	1154.1782	31.7975
44.	1178.1234	2.7031
45.	1185.7031	2.3126
46.	1220.9667	2.2644
47.	1224.3774	9.7072
48.	1274.1631	59.5013
49.	1334.8504	37.6086
50.	1357.5662	23.0727
51.	1386.9685	732.4209
52.	1394.3680	3.3424
53.	1403.3124	29.2427
54.	1431.1124	48.5623
55.	1437.8590	4.9334
56.	1490.1025	125.0689
57.	1571.0031	2.0376
58.	1603.3203	251.6470
59.	1614.4676	226.2683
60.	1632.7439	20.3772
61.	1643.3523	26.8418
62.	1652.5353	53.8577
63.	1687.9408	7.4397
64.	1688.2595	147.9319
65.	3176.0920	19.2886
66.	3192.1160	16.5886
67.	3234.2151	0.0432
68.	3245.0859	1.9519
69.	3517.2137	23.8372
70.	3517.5023	8.4268
71.	3635.4851	7.2697
72.	3635.7652	41.5204