
CN

UCCSD(T)/CC-PVTZ ENERGY=-92.56759338

C 0.0000000000 0.0000000000 -0.6348726734

N 0.0000000000 0.0000000000 0.5444148643

Frequencies (cm-1)

2051.9

E0 = 2.933 kcal/mol

G4

1	6	0	0.000000	0.000000	-0.629712
2	7	0	0.000000	0.000000	0.539753

Rotational constants (GHZ): 0.0000000 57.1825237 57.1825237

Frequencies -- 2142.4512

CH3CN

CCSD(T)/CC-PVTZ ENERGY=-132.52787509

C 0.0000000000 0.0000000000 -1.2985428051

C 0.0000000000 0.0000000000 0.1677369272

H 1.0246401760 0.0000000000 -1.6681771631

H -0.5123200880 -0.8873644221 -1.6681771631

H -0.5123200880 0.8873644221 -1.6681771631

N 0.0000000000 0.0000000000 1.3298190772

Frequencies (cm-1)

361.2 361.2 920.9 1061.9 1062.0

1413.8 1487.3 1487.6 2297.8 3065.7

3149.4 3149.4

E0 = 28.332 kcal/mol

G4

1	6	0	0.000000	0.000000	-1.176615
2	6	0	0.000000	0.000000	0.280319
3	1	0	0.000000	1.025236	-1.556495
4	1	0	0.887881	-0.512618	-1.556495
5	1	0	-0.887881	-0.512618	-1.556495
6	7	0	0.000000	0.000000	1.435323

Rotational constants (GHZ): 159.0240101 9.2232198 9.2232198

Frequencies -- 394.2833 394.2834 931.3572

Frequencies -- 1060.8388 1060.8407 1409.6251

Frequencies -- 1472.4155 1472.4159 2372.3591

Frequencies -- 3053.5850 3127.9709 3127.9710

NCC(CH3)N

UCCSD(T)/CC-PVTZ ENERGY=-225.15526112

C -1.1193085255 0.0000000000 1.3389603963

C 0.1429590510 0.0000000000 0.5036129793

N 1.3073392760 0.0000000000 0.9995658375

H -0.8574909410 0.0000000000 2.3949783117

H -1.7109385022 0.8854196989 1.1026225550

H -1.7109385022 -0.8854196989 1.1026225550

C -0.0045419854 0.0000000000 -0.9458331374

N -0.1582582325 0.0000000000 -2.0995748472

Frequencies (cm-1)

164.4 179.8 269.7 376.8 551.4

552.2 741.8 1013.5 1039.5 1157.5

1394.8 1478.9 1484.5 1665.8 2267.8

3055.0 3134.0 3163.0

E0 = 33.867 kcal/mol

G4

1	6	0	1.501188	0.693836	0.000000
2	6	0	0.000000	0.478422	0.000000
3	7	0	-0.831347	1.424403	0.000000
4	1	0	1.720359	1.761977	0.000000
5	1	0	1.940798	0.226046	0.885818
6	1	0	1.940798	0.226046	-0.885818
7	6	0	-0.482545	-0.886476	0.000000
8	7	0	-0.842056	-1.985654	0.000000

Rotational constants (GHZ): 10.6215514 4.2158363 3.0760722
Frequencies -- 163.3466 186.0844 291.0851
Frequencies -- 377.6192 568.9853 584.1326
Frequencies -- 745.4335 1005.7221 1038.1111
Frequencies -- 1141.2545 1386.9865 1466.2104
Frequencies -- 1471.2655 1699.4307 2345.5040
Frequencies -- 3050.4736 3122.3735 3159.4116

CH3CNCN

UCCSD(T)/CC-PVTZ ENERGY=-225.12817579

C -0.7626199028 0.0000000000 -1.8522846478
C 0.5515823448 0.0000000000 -1.1567460764
N 0.9286468920 0.0000000000 0.0320111624
H -1.5798808924 0.0000000000 -1.1231961522
H -0.8346853613 0.8816011750 -2.4903176949
H -0.8346853613 -0.8816011750 -2.4903176949
C 0.0807004384 0.0000000000 1.0912639977
N -0.5830601502 0.0000000000 2.0517481896

Frequencies (cm-1)

101.9 122.3 295.1 404.8 515.1
598.4 844.9 1001.2 1015.6 1077.3
1384.1 1463.7 1470.9 1814.7 2245.6
3021.6 3115.9 3134.5

E0 = 33.777 kcal/mol

(33.77745850666896, 20.5224800217295, 13.254978484939457)

G4

1	6	0	-1.759624	-0.940720	0.000000
2	6	0	-1.149252	0.409470	0.000000
3	7	0	0.000000	0.863663	0.000000
4	1	0	-0.992178	-1.726127	0.000000
5	1	0	-2.400877	-1.052873	0.879913
6	1	0	-2.400877	-1.052873	-0.879913
7	6	0	1.200099	0.289369	0.000000
8	7	0	2.292370	-0.108926	0.000000

Rotational constants (GHZ): 18.4992865 3.1378134 2.7279666
Frequencies -- 106.3251 107.5835 305.2312
Frequencies -- 413.2590 555.3086 580.1959
Frequencies -- 830.5204 1005.2197 1035.1113
Frequencies -- 1067.0414 1375.5583 1448.2909
Frequencies -- 1457.3664 1901.5241 2312.0731
Frequencies -- 3011.5974 3101.2264 3113.8269

NC...CH3CN

UCCSD(T)/CC-PVTZ ENERGY=-225.09778962

C	-0.0000000000	0.0000000000	0.6965735669
C	-0.0000000000	0.0000000000	2.1629419977
N	-0.0000000000	0.0000000000	3.3251882070
H	1.0228595631	0.0000000000	0.3231882491
H	-0.5114297815	-0.8858223661	0.3231882491
H	-0.5114297815	0.8858223661	0.3231882491
N	0.0000000000	0.0000000000	-2.6037899083
C	0.0000000000	0.0000000000	-3.7821425433

Frequencies (cm-1)

23.7 38.8 46.5

70.5 89.0 364.9 366.7 925.9

1054.9 1056.8 1422.1 1481.6 1484.0

2055.5 2295.8 3073.7 3151.4 3154.5

E0 = 31.674 kcal/mol

UCCSD(T)-F12/CC-PVDZ-F12 ENERGY=-225.15121727

C	-0.0000000000	0.0000000000	0.6955392936
C	-0.0000000000	0.0000000000	2.1591571786
N	-0.0000000000	0.0000000000	3.3174034815
H	1.0221354854	0.0000000000	0.3231700449
H	-0.5110677427	-0.8851952965	0.3231700449
H	-0.5110677427	0.8851952965	0.3231700449
N	0.0000000000	0.0000000000	-2.5996702214
C	0.0000000000	0.0000000000	-3.7730448612

Frequencies (cm-1)

21.4 21.5 33.2 33.3

58.3 365.3 365.4 921.8 1061.0

1061.0 1413.5 1487.6 1487.8 2070.3

2304.9 3073.9 3158.3 3158.4

E0 = 31.589 kcal/mol

G4

1	6	0	0.000000	0.000000	0.717504
2	6	0	0.000000	0.000000	2.174431
3	7	0	0.000000	0.000000	3.329634
4	1	0	0.000000	1.023502	0.334353
5	1	0	0.886378	-0.511751	0.334353
6	1	0	-0.886378	-0.511751	0.334353
7	7	0	0.000000	0.000000	-2.665450
8	6	0	0.000000	0.000000	-3.833992

Rotational constants (GHZ): 159.5635737 1.0190171 1.0190171

Frequencies -- -7.4626 -7.4442 25.5595

Frequencies -- 25.5761 46.2432 395.8465

Frequencies -- 395.8469 930.0986 1056.3572

Frequencies -- 1056.3592 1403.0466 1469.2602

Frequencies -- 1469.2604 2147.5090 2370.3224

Frequencies -- 3059.3221 3132.5387 3132.5389

CH3CN...CN; linear

UCCSD(T)/CC-PVTZ ENERGY=-225.09997591

C	0.0000000000	0.0000098243	-3.1485274437
C	0.0000000000	-0.0000042377	-1.6827678602
N	0.0000000000	-0.0000125966	-0.5214853280
H	0.0000000000	-1.0252272407	-3.5163456981
H	0.8878994497	0.5126377172	-3.5162893760
H	-0.8878994497	0.5126377172	-3.5162893760

```

C   0.0000000000 -0.0000067842  2.2854105822
N   0.0000000000  0.0000101555  3.4637418411
Frequencies (cm-1)
11.1 11.2 43.4 43.4
73.6 364.2 364.2 922.4 1062.1
1062.2 1413.4 1485.7 1486.0 2057.6
2301.8 3066.8 3151.8 3151.8
E0 = 31.554 kcal/mol
UCCSD(T)-F12/CC-PVDZ-F12 ENERGY=-225.15359561
C   0.0000000000  0.0000000000 -3.1282109604
C   0.0000000000  0.0000000000 -1.6654616999
N   0.0000000000  0.0000000000 -0.5081924493
H   1.0244414292  0.0000000000 -3.4949136682
H  -0.5122207146  0.8871923024 -3.4949136682
H  -0.5122207146 -0.8871923024 -3.4949136682
C  -0.0000000000  0.0000000000  2.2611401410
N  -0.0000000000  0.0000000000  3.4343804834
Frequencies (cm-1)
37.5 37.5
74.8 363.6 363.6 924.5 1065.1
1065.1 1419.6 1489.4 1489.5 2072.4
2312.1 3070.8 3156.8 3156.8
-5.4 -5.4
E0 = 31.607 kcal/mol
G4
  1      6      0      0.000000  0.000000 -2.866201
  2      6      0      0.000000  0.000000 -1.411053
  3      7      0      0.000000  0.000000 -0.258038
  4      1      0      0.000000  1.026657 -3.241591
  5      1      0     -0.889111 -0.513329 -3.241591
  6      1      0      0.889111 -0.513329 -3.241591
  7      6      0      0.000000  0.000000  2.232300
  8      7      0      0.000000  0.000000  3.400108
-----
Rotational constants (GHZ): 158.5841028  1.3403058  1.3403058
Frequencies -- -40.9852      -40.9798      -16.1697
Frequencies -- -16.1655      127.0549      384.6617
Frequencies -- 384.6624      934.6358      1058.4216
Frequencies -- 1058.4234      1407.5913      1468.0635
Frequencies -- 1468.0639      2162.8894      2379.3264
Frequencies -- 3056.6500      3134.4040      3134.4040
*****
CH3CN...CN; bent
UCCSD(T)-F12/CC-PVDZ-F12 ENERGY=-225.15396362
C  -1.1994866597  0.0000000000 -1.5314389087
C   0.2295346943  0.0000000000 -1.2239033354
N   1.3545027303  0.0000000000 -0.9437843335
H  -1.7607127227  0.0000000000 -0.5978193782
H  -1.4543712906  0.8878187313 -2.1065210359
H  -1.4543712906 -0.8878187313 -2.1065210359
C   0.4926425516  0.0000000000  1.7490397779
N  -0.6091812664  0.0000000000  2.1529027276
Frequencies (cm-1)
48.8 60.0 72.9 86.2 100.8 365.4
370.6 922.2 1064.1 1067.5 1417.1
1487.8 1489.2 2068.1 2294.8 3066.3

```

3150.9 3156.9

E0 = 31.865 kcal/mol

G4

1	6	0	-2.286432	-0.142563	0.000000
2	6	0	-1.014715	0.559791	0.000000
3	7	0	0.000000	1.119111	0.000000
4	1	0	-2.108136	-1.222105	0.000000
5	1	0	-2.863164	0.120821	0.890475
6	1	0	-2.863164	0.120821	-0.890475
7	6	0	1.860240	-0.149957	0.000000
8	7	0	2.354273	-1.208134	0.000000

Rotational constants (GHZ): 14.6266881 2.2288550 1.9580819

Frequencies -- 36.1641 40.9216 49.4479

Frequencies -- 93.4180 174.3545 391.3137

Frequencies -- 405.2353 929.1686 1050.1984

Frequencies -- 1059.2396 1403.4621 1462.5979

Frequencies -- 1463.6514 2159.9266 2318.7237

Frequencies -- 3052.8951 3128.5417 3135.5544

CH3CN + CN = CH2CN + HCN

UCCSD(T)/CC-PVTZ ENERGY=-225.08739817

C -1.0782496133 0.0000000000 -0.6659921272

C -0.0298110939 0.0000000000 -1.6704243528

N 0.8192423215 0.0000000000 -2.4661654469

H -0.5695507878 0.0000000000 0.3904728519

H -1.6855761648 0.9025202803 -0.6999212162

H -1.6855761648 -0.9025202803 -0.6999212162

C 0.0191878927 0.0000000000 1.8468520430

N 0.3980639444 0.0000000000 2.9586113784

Frequencies (cm-1)

52.9 86.9 141.0 319.4 382.1

382.9 933.3 999.2 1054.6 1080.0

1339.8 1411.2 1479.0 2105.8 2278.6

3101.1 3176.1

-582.6

E0 = 29.887 kcal/mol

G4

1	6	0	1.073245	0.718106	0.000000
2	6	0	1.856957	-0.506914	0.000000
3	7	0	2.477466	-1.481731	0.000000
4	1	0	0.000000	0.482215	0.000000
5	1	0	1.290166	1.314816	0.889968
6	1	0	1.290166	1.314816	-0.889968
7	6	0	-2.367213	0.102529	0.000000
8	7	0	-3.328647	0.768278	0.000000

Rotational constants (GHZ): 16.7211018 1.2900317 1.2067654

Frequencies -- -70.2688 15.8319 20.5131

Frequencies -- 43.0249 82.0874 392.6324

Frequencies -- 393.7263 934.5900 1049.9473

Frequencies -- 1057.3193 1401.3053 1448.1475

Frequencies -- 1460.9617 2146.8490 2361.1934

Frequencies -- 2985.2074 3091.1644 3132.0158

CH3CN + CN = CH2CN + HNC

UCCSD(T)/CC-PVTZ ENERGY=-225.06911771

C -1.1122532324 0.0000000000 -0.5939626514
C -0.0358461150 0.0000000000 -1.5500075421
N 0.8543733593 0.0000000000 -2.3034147547
H -0.5912413656 0.0000000000 0.5422821442
H -1.7067949285 0.9108172515 -0.6058495987
H -1.7067949285 -0.9108172515 -0.6058495987
N -0.0524203964 0.0000000000 1.7828179197
C 0.5489747964 0.0000000000 2.8072435191

Frequencies (cm-1)

121.2 339.4 391.8 420.9 534.5
955.8 1014.0 1057.8 1253.4 1282.2
1448.3 2025.3 2242.4 3103.4 3188.2
-2533.4

0.0 28.9 41.6

E0 = 31.425 kcal/mol

G4

1	6	0	1.143391	0.244625	0.000000
2	6	0	1.056253	-1.178312	0.000000
3	7	0	0.963212	-2.336150	0.000000
4	1	0	0.000000	0.704193	0.000000
5	1	0	1.587794	0.654588	0.909143
6	1	0	1.587794	0.654588	-0.909143
7	7	0	-1.281944	1.314414	0.000000
8	6	0	-2.357055	1.790151	0.000000

Rotational constants (GHZ): 15.2740806 1.9093857 1.7164262

Frequencies -- -1176.5717 51.9790 72.8028
Frequencies -- 133.2708 365.7051 434.5690
Frequencies -- 445.7933 636.8849 978.9233
Frequencies -- 1026.3598 1066.2598 1287.3379
Frequencies -- 1331.3264 1437.3634 2115.6707
Frequencies -- 2283.2495 3085.2691 3162.7003

CH3CN...CN = NCC(CH3)N

UCCSD(T)/CC-PVTZ ENERGY=-225.09369828

C -1.2955439958 0.0000000000 1.2466691701
C 0.1598774975 0.0000000000 1.0205578330
N 1.3312525075 0.0000000000 1.1363817196
H -1.4802031358 0.0000000000 2.3203537505
H -1.7363422348 0.8867767156 0.7939497901
H -1.7363422348 -0.8867767156 0.7939497901
C 0.1818197953 0.0000000000 -1.2037183104
N -0.1568955010 0.0000000000 -2.3296026617

Frequencies (cm-1)

50.3 71.2 134.7 222.5 296.5
374.6 898.5 1041.5 1066.3 1408.5
1478.8 1481.8 2082.3 2154.2 3067.7
3158.1 3158.4

-364.9

E0 = 32.181 kcal/mol

G4

1	6	0	1.456335	0.943487	0.000000
2	6	0	0.000000	1.047419	0.000000
3	7	0	-1.133185	1.332223	0.000000
4	1	0	1.885799	1.948928	0.000000

5	1	0	1.793391	0.403748	0.887738
6	1	0	1.793391	0.403748	-0.887738
7	6	0	-0.559618	-1.224481	0.000000
8	7	0	-0.417226	-2.382934	0.000000

Rotational constants (GHZ): 9.0875574 3.2175232 2.4122409

Frequencies -- -205.7158 36.7996 67.1992

Frequencies -- 116.7406 199.9939 314.6023

Frequencies -- 399.6518 911.0291 1042.3773

Frequencies -- 1062.7425 1403.6743 1460.2892

Frequencies -- 1464.7953 2176.7833 2248.2976

Frequencies -- 3060.3332 3141.3348 3145.8232

CH3CN...CN = CH3CNCN

UCCSD(T)/CC-PVTZ ENERGY=-225.09099307

C	0.0000000000	0.5464824221	-2.3593062774
C	0.0000000000	-0.3369015038	-1.1936394332
N	0.0000000000	-0.8270960819	-0.1182533659
H	0.0000000000	1.5856446184	-2.0207264728
H	0.8876520890	0.3602537201	-2.9627515596
H	-0.8876520890	0.3602537201	-2.9627515596
C	0.0000000000	0.1804403422	1.3844085440
N	0.0000000000	0.3266921134	2.5496342452

Frequencies (cm-1)

52.0 69.0 84.1 229.5 390.2

418.1 896.2 1038.1 1060.8 1403.9

1474.2 1475.4 2024.2 2115.5 3046.2

3130.2 3152.3

-440.8

E0 = 32.166 kcal/mol

(32.16611628139698, 18.830138239624883, 13.335978041772098)

G4

1	6	0	-2.397628	-0.315978	0.000000
2	6	0	-1.080626	0.292938	0.000000
3	7	0	0.000000	0.730322	0.000000
4	1	0	-2.306060	-1.407571	0.000000
5	1	0	-2.953685	-0.007191	0.889460
6	1	0	-2.953685	-0.007191	-0.889460
7	6	0	1.608356	-0.293003	0.000000
8	7	0	2.776116	-0.256291	0.000000

Rotational constants (GHZ): 33.7265748 2.0566633 1.9624623

Frequencies -- -209.6087 29.5722 55.3130

Frequencies -- 75.2208 237.9767 397.6456

Frequencies -- 405.8040 917.6647 1040.4087

Frequencies -- 1056.8947 1401.9044 1458.7575

Frequencies -- 1460.2326 2141.1104 2227.2653

Frequencies -- 3043.5300 3116.5033 3132.0579

NCC(CH3)N = CH3 + NCCN

UCCSD(T)/CC-PVTZ ENERGY=-225.10400969

N	0.0000000000	-1.2917783469	-1.2847795317
C	0.0000000000	-0.5063887571	-0.3985497847
C	0.0000000000	-0.1609805574	0.9632810536
N	0.0000000000	0.1502618316	2.0857617462
C	0.0000000000	1.5654463747	-1.1860136727

H 0.0000000000 1.3469741380 -2.2445711657
H 0.9260491718 1.9070612793 -0.7413643524
H -0.9260491718 1.9070612793 -0.7413643524

Frequencies (cm-1)

73.2 146.3 245.7 279.8 462.9
472.7 553.1 561.5 835.2 920.0
1425.8 1435.2 2026.2 2303.4 3095.1
3261.2 3273.8

-533.7

E0 = 31.314 kcal/mol

G4

1	7	0	-0.434348	1.789638	0.000000
2	6	0	0.000000	0.695713	0.000000
3	6	0	1.002821	-0.266188	0.000000
4	7	0	1.828752	-1.078381	0.000000
5	6	0	-1.712594	-0.804831	0.000000
6	1	0	-2.525188	-0.089869	0.000000
7	1	0	-1.488501	-1.318545	0.927736
8	1	0	-1.488501	-1.318545	-0.927736

Rotational constants (GHZ): 7.2877850 4.2018627 2.7148828

Frequencies --	-429.6173	65.4968	148.5059
Frequencies --	268.4296	288.2683	484.5126
Frequencies --	486.7476	547.8952	596.1013
Frequencies --	861.6764	921.5121	1411.3420
Frequencies --	1420.4944	2106.1866	2367.8848
Frequencies --	3107.6383	3277.4120	3289.9110

CH3

C 0.0000000000 0.0000000000 0.0000000000
H 0.0000000000 0.0000000000 1.0788619580
H 0.0000000000 0.9343218628 -0.5394309790
H 0.0000000000 -0.9343218628 -0.5394309790

Frequencies (cm-1)

496.4 1426.3 1426.5 3119.2 3300.0
3300.0

E0 = 18.682 kcal/mol

G4

1	6	0	0.000000	0.000000	0.000000
2	1	0	0.000000	1.081443	0.000000
3	1	0	0.936557	-0.540721	0.000000
4	1	0	-0.936557	-0.540721	0.000000

Rotational constants (GHZ): 285.8471809 285.8471809 142.9235905

Frequencies --	471.2129	1407.5054	1407.5075
Frequencies --	3121.7629	3304.5999	3304.6017

NCCN

CCSD(T)/CC-PVTZ ENERGY=-185.35435994

N 0.0000000000 0.0000000000 -1.8594612016
C 0.0000000000 0.0000000000 -0.6945662981
C 0.0000000000 0.0000000000 0.6945662981
N 0.0000000000 0.0000000000 1.8594612016

Frequencies (cm-1)

236.4 236.4 498.5 498.5 855.6
2175.0 2366.7

E0 = 9.817 kcal/mol

G4

1	7	0	0.000000	0.000000	1.845870
2	6	0	0.000000	0.000000	0.688029
3	6	0	0.000000	0.000000	-0.688029
4	7	0	0.000000	0.000000	-1.845870

Rotational constants (GHZ): 0.000000 4.7326865 4.7326865

Frequencies -- 259.3789 259.3789 575.7249

Frequencies -- 575.7249 885.9569 2270.2814

Frequencies -- 2434.4285

CH2CN

UCCSD(T)/CC-PVTZ ENERGY=-131.86428012

C 0.0000000000 0.0000000000 -1.2900868499

C 0.0000000000 0.0000000000 0.1045279853

N 0.0000000000 0.0000000000 1.2794603898

H 0.0000000000 0.9366117648 -1.8261356429

H 0.0000000000 -0.9366117648 -1.8261356429

Frequencies (cm-1)

360.7 414.0 641.8 1027.5 1035.8

1460.3 2111.9 3180.7 3293.6

E0 = 19.337 kcal/mol

G4

1	6	0	0.000000	0.000000	-1.191003
2	6	0	0.000000	0.000000	0.185841
3	7	0	0.000000	0.000000	1.357825
4	1	0	0.000000	0.934714	-1.736900
5	1	0	0.000000	-0.934714	-1.736900

Rotational constants (GHZ): 286.9754425 10.3060935 9.9488040

Frequencies -- 395.7711 451.6761 668.6069

Frequencies -- 1033.3575 1065.1947 1446.2060

Frequencies -- 2133.3920 3172.0944 3276.1793

HCN

CCSD(T)/CC-PVTZ ENERGY=-93.27521856

C 0.0000000000 0.0000000000 -0.5614730676

N 0.0000000000 0.0000000000 0.5986507130

H 0.0000000000 0.0000000000 -1.6283389164

Frequencies (cm-1)

716.1 716.1 2110.7 3442.8

E0 = 9.987 kcal/mol

G4

1	6	0	0.000000	0.000000	-0.499778
2	7	0	0.000000	0.000000	0.652139
3	1	0	0.000000	0.000000	-1.566302

Rotational constants (GHZ): 0.000000 44.5837978 44.5837978

Frequencies -- 798.5157 798.5157 2197.3643

Frequencies -- 3490.9262

HNC

CCSD(T)/CC-PVTZ ENERGY=-93.25141802

C 0.0000000000 0.0000000000 -0.6902386891

N 0.0000000000 0.0000000000 0.4852662933

H 0.0000000000 0.0000000000 1.4817127051

Frequencies (cm-1)

473.1 473.1 2044.7 3824.0

E0 = 9.742 kcal/mol

G4

1	6	0	0.000000	0.000000	-0.739626
2	7	0	0.000000	0.000000	0.430295
3	1	0	0.000000	0.000000	1.425688

Rotational constants (GHZ): 0.0000000 45.3994125 45.3994125

Frequencies -- 525.5802 525.5802 2099.0641

Frequencies -- 3865.3763