

## Appendix F

# Dimethyl Carbonate Spectral Analysis

### F.1 Dimethyl Carbonate .int File

```
dmc AA, EE, EA, AE
11 46008 1329911.    0 120  -12.9 -12.9    360 300
   2    0.1
  112   0.1
  332   0.1
  552   0.1
```

## F.2 Dimethyl Carbonate .par File

```

dmc AA, EE, EA, AE                               Sat Thu Apr 14 11:47:48 2005
41 278 10 0 0.0000E+000 3.0000E+010 1.0000E+000 1.0000000000
'a' 1 6 0 60 0 2 6 10 -1 99 3
    1 1 0 60 0 2 8 8 -1 199 0
    1 2 0 60 0 2 8 8 -1 299 0
    1 3 0 60 0 2 2 2 -1 199 0
    1 4 0 60 0 2 2 2 -1 299 0
    1 5 0 60 0 2 2 6 0 99 0
      910099 3.00000000001011E-001 1.00000000E-037
      99 -7.093249895311526E+001 1.16195032E+031
    -1000000000 7.109521410676506E+001 1.00000000E-037
    -1000000033 -3.554760705338249E+001 1.00000000E-037
    -11000000033 6.157026150395218E+001 1.00000000E-037
    -1000000055 -3.554760705338249E+001 1.00000000E-037
    -1000000011 1.777380352669114E+001 1.00000000E-037
    -11000000011 3.078513075197672E+001 1.00000000E-037
      2000000000 -2.558805162405164E+001 1.00000000E+037
    -2000000033 1.279402581202599E+001 1.00000000E-037
    -12000000033 2.215990273977636E+001 1.00000000E-037
    -2000000055 1.279402581202599E+001 1.00000000E-037
    -2000000011 -6.397012906013114E+000 1.00000000E-037
    -12000000011 1.107995136988829E+001 1.00000000E-037
      3000000099 -7.184739334028848E+000 1.00000000E+000
      4000000000 -2.359809593776768E-002 1.00000000E+000
    -4000000011 1.179904826039504E-002 1.00000000E-037
    -14000000011 -2.043654998849988E-002 1.00000000E-037
      1000400055 -3.095160480846307E+001 1.37411913E+010
    -1000400011 1.547580211838569E+001 1.00000000E-037
    -11000400011 2.680487590951319E+001 1.00000000E-037
      2000400055 1.108864846582044E+001 1.34572916E+010
    -2000400011 -5.548431596630979E+000 1.00000000E-037
    -12000400011 9.610165427752015E+000 1.00000000E-037
      1099 8.226300154364682E+003 1.19562662E+010
      199 2.175936215902030E+003 2.86651175E+010
      1000000100 4.095810623842150E-002 3.90830723E+004
    -1000000133 -2.047905311921122E-002 1.00000000E-037
    -11000000133 3.547076049337489E-002 1.00000000E-037
    -1000000155 -2.047905311921122E-002 1.00000000E-037
    -1000000111 1.023952655960575E-002 1.00000000E-037
    -11000000111 1.773538024668783E-002 1.00000000E-037
      40099 9.775428855827747E+001 9.24448385E+010
      1000040000 1.528206401950211E-002 1.35160053E+004
    -1000040033 -7.641032009751253E-003 1.00000000E-037
    -11000040033 1.323465566314895E-002 1.00000000E-037
    -1000040055 -7.641032009751253E-003 1.00000000E-037
    -1000040011 3.820516004875662E-003 1.00000000E-037
    -11000040011 6.617327831574674E-003 1.00000000E-037
      299 -1.225971243000191E-004 1.00000000E+037
      1199 -1.133613651949211E-002 1.00000000E+037

```

## F.3 Dimethyl Carbonate .lin File

0	0	0	0					0.00	0.0001
1	1	1	3	0	0	0	4	12381.7384	0.0120
1	1	1	5	0	0	0	5	12389.9925	0.0120
1	1	1	1	0	0	0	2	12391.0100	0.0120
1	1	1	0	0	0	0	0	12396.2250	0.0120
6	1	5	4	6	0	6	4	13066.8738	0.0120
6	1	5	5	6	0	6	5	13067.2156	0.0120
6	1	5	2	6	0	6	2	13070.2968	0.0120
6	1	5	0	6	0	6	0	13073.5508	0.0120
7	1	6	4	7	0	7	4	14960.2916	0.0120
7	1	6	5	7	0	7	5	14960.5481	0.0120
7	1	6	2	7	0	7	2	14963.7606	0.0120
7	1	6	0	7	0	7	0	14967.1045	0.0120
5	0	5	0	4	1	4	0	15029.9267	0.0120
5	0	5	2	4	1	4	1	15032.1573	0.0120
5	0	5	5	4	1	4	5	15034.6068	0.0120
2	1	2	3	1	0	1	4	16347.9283	0.0120
2	1	2	5	1	0	1	5	16350.7341	0.0120
2	1	2	1	1	0	1	2	16353.1368	0.0120
2	1	2	0	1	0	1	0	16356.9482	0.0120
8	1	7	4	8	0	8	4	17251.3767	0.0120
8	1	7	5	8	0	8	5	17251.5849	0.0120
8	1	7	2	8	0	8	2	17254.9187	0.0120
8	1	7	0	8	0	8	0	17258.3580	0.0120
3	1	3	3	2	0	2	4	20120.2448	0.0120
3	1	3	5	2	0	2	5	20121.5722	0.0120
3	1	3	1	2	0	2	2	20124.2190	0.0120
3	1	3	0	2	0	2	0	20127.6808	0.0120
57	0	57	2	56	1	56	1	227481.663	0.0800
57	0	57	4	56	1	56	3	227481.663	0.0800
57	0	57	5	56	1	56	5	227481.663	0.0800
57	0	57	2	56	0	56	2	227481.663	0.0800
57	1	57	5	56	0	56	5	227481.663	0.0800
57	1	57	0	56	0	56	0	227481.663	0.0800
57	0	57	0	56	1	56	0	227481.663	0.0800
57	1	57	1	56	0	56	2	227481.663	0.0800
57	1	57	1	56	1	56	1	227481.663	0.0800
57	1	57	3	56	0	56	4	227481.663	0.0800
58	1	58	3	57	0	57	4	231437.221	0.0800
58	0	58	2	57	0	57	2	231437.221	0.0800
58	0	58	0	57	1	57	0	231437.221	0.0800
58	1	58	1	57	0	57	2	231437.221	0.0800
58	1	58	1	57	1	57	1	231437.221	0.0800
58	1	58	5	57	0	57	5	231437.221	0.0800
58	0	58	5	57	1	57	5	231437.221	0.0800
58	0	58	2	57	1	57	1	231437.221	0.0800
58	1	58	0	57	0	57	0	231437.221	0.0800
58	0	58	4	57	1	57	3	231437.221	0.0800
59	0	59	2	58	1	58	1	235392.586	0.0800
59	1	59	1	58	0	58	2	235392.586	0.0800
59	0	59	2	58	0	58	2	235392.586	0.0800
59	0	59	4	58	1	58	3	235392.586	0.0800

59	1	59	1	58	1	58	1	235392.586	0.0800
59	0	59	5	58	1	58	5	235392.586	0.0800
59	0	59	0	58	1	58	0	235392.586	0.0800
59	1	59	0	58	0	58	0	235392.586	0.0800
59	1	59	5	58	0	58	5	235392.586	0.0800
59	1	59	3	58	0	58	4	235392.586	0.0800
60	1	60	1	59	1	59	1	239347.718	0.0800
60	0	60	2	59	0	59	2	239347.718	0.0800
60	1	60	0	59	0	59	0	239347.718	0.0800
60	0	60	5	59	1	59	5	239347.718	0.0800
60	0	60	0	59	1	59	0	239347.718	0.0800
60	1	60	1	59	0	59	2	239347.718	0.0800
60	1	60	5	59	0	59	5	239347.718	0.0800
60	0	60	2	59	1	59	1	239347.718	0.0800
60	0	60	4	59	1	59	3	239347.718	0.0800
60	1	60	3	59	0	59	4	239347.718	0.0800
64	1	64	0	63	0	63	0	255166.699	0.0800
64	1	64	3	63	0	63	4	255166.699	0.0800
64	1	64	1	63	1	63	1	255166.699	0.0800
64	1	64	1	63	0	63	2	255166.699	0.0800
64	1	64	5	63	0	63	5	255166.699	0.0800
64	0	64	5	63	1	63	5	255166.699	0.0800
64	0	64	2	63	1	63	1	255166.699	0.0800
64	0	64	2	63	0	63	2	255166.699	0.0800
64	0	64	0	63	1	63	0	255166.699	0.0800
64	0	64	4	63	1	63	3	255166.699	0.0800
65	0	65	5	64	1	64	5	259120.953	0.0800
65	0	65	0	64	1	64	0	259120.953	0.0800
65	1	65	1	64	0	64	2	259120.953	0.0800
65	1	65	0	64	0	64	0	259120.953	0.0800
65	1	65	5	64	0	64	5	259120.953	0.0800
65	0	65	4	64	1	64	3	259120.953	0.0800
65	0	65	2	64	1	64	1	259120.953	0.0800
65	0	65	2	64	0	64	2	259120.953	0.0800
65	1	65	1	64	1	64	1	259120.953	0.0800
65	1	65	3	64	0	64	4	259120.953	0.0800
66	1	66	1	65	0	65	2	263075.049	0.0800
66	0	66	2	65	0	65	2	263075.049	0.0800
66	0	66	2	65	1	65	1	263075.049	0.0800
66	0	66	4	65	1	65	3	263075.049	0.0800
66	0	66	5	65	1	65	5	263075.049	0.0800
66	0	66	0	65	1	65	0	263075.049	0.0800
66	1	66	0	65	0	65	0	263075.049	0.0800
66	1	66	3	65	0	65	4	263075.049	0.0800
66	1	66	1	65	1	65	1	263075.049	0.0800
66	1	66	5	65	0	65	5	263075.049	0.0800
68	1	68	1	67	1	67	1	270982.525	0.0800
68	1	68	1	67	0	67	2	270982.525	0.0800
68	0	68	0	67	1	67	0	270982.525	0.0800
68	1	68	3	67	0	67	4	270982.525	0.0800
68	1	68	5	67	0	67	5	270982.525	0.0800
68	0	68	4	67	1	67	3	270982.525	0.0800
68	0	68	2	67	1	67	1	270982.525	0.0800

68	0	68	2	67	0	67	2	270982.525	0.0800
68	1	68	0	67	0	67	0	270982.525	0.0800
68	0	68	5	67	1	67	5	270982.525	0.0800
69	0	69	5	68	1	68	5	274936.064	0.0800
69	0	69	0	68	1	68	0	274936.064	0.0800
69	0	69	2	68	0	68	2	274936.064	0.0800
69	0	69	2	68	1	68	1	274936.064	0.0800
69	1	69	3	68	0	68	4	274936.064	0.0800
69	1	69	0	68	0	68	0	274936.064	0.0800
69	1	69	1	68	0	68	2	274936.064	0.0800
69	1	69	1	68	1	68	1	274936.064	0.0800
69	1	69	5	68	0	68	5	274936.064	0.0800
69	0	69	4	68	1	68	3	274936.064	0.0800
70	0	70	4	69	1	69	3	278889.280	0.0800
70	1	70	5	69	0	69	5	278889.280	0.0800
70	1	70	0	69	0	69	0	278889.280	0.0800
70	0	70	2	69	0	69	2	278889.280	0.0800
70	0	70	2	69	1	69	1	278889.280	0.0800
70	1	70	3	69	0	69	4	278889.280	0.0800
70	0	70	5	69	1	69	5	278889.280	0.0800
70	0	70	0	69	1	69	0	278889.280	0.0800
70	1	70	1	69	0	69	2	278889.280	0.0800
70	1	70	1	69	1	69	1	278889.280	0.0800
71	0	71	2	70	1	70	1	282842.306	0.0800
71	0	71	5	70	1	70	5	282842.306	0.0800
71	0	71	0	70	1	70	0	282842.306	0.0800
71	0	71	2	70	0	70	2	282842.306	0.0800
71	1	71	5	70	0	70	5	282842.306	0.0800
71	0	71	4	70	1	70	3	282842.306	0.0800
71	1	71	3	70	0	70	4	282842.306	0.0800
71	1	71	0	70	0	70	0	282842.306	0.0800
71	1	71	1	70	0	70	2	282842.306	0.0800
71	1	71	1	70	1	70	1	282842.306	0.0800
72	1	72	5	71	0	71	5	286794.999	0.0800
72	1	72	1	71	1	71	1	286794.999	0.0800
72	1	72	1	71	0	71	2	286794.999	0.0800
72	1	72	0	71	0	71	0	286794.999	0.0800
72	1	72	3	71	0	71	4	286794.999	0.0800
72	0	72	4	71	1	71	3	286794.999	0.0800
72	0	72	2	71	1	71	1	286794.999	0.0800
72	0	72	2	71	0	71	2	286794.999	0.0800
72	0	72	0	71	1	71	0	286794.999	0.0800
72	0	72	5	71	1	71	5	286794.999	0.0800
73	1	73	5	72	0	72	5	290747.599	0.0800
73	0	73	0	72	1	72	0	290747.599	0.0800
73	0	73	2	72	0	72	2	290747.599	0.0800
73	0	73	2	72	1	72	1	290747.599	0.0800
73	1	73	3	72	0	72	4	290747.599	0.0800
73	1	73	1	72	0	72	2	290747.599	0.0800
73	1	73	1	72	1	72	1	290747.599	0.0800
73	0	73	4	72	1	72	3	290747.599	0.0800
73	0	73	5	72	1	72	5	290747.599	0.0800
73	1	73	0	72	0	72	0	290747.599	0.0800

74	0	74	2	73	0	73	2	294700.049	0.0800
74	0	74	2	73	1	73	1	294700.049	0.0800
74	0	74	4	73	1	73	3	294700.049	0.0800
74	0	74	0	73	1	73	0	294700.049	0.0800
74	0	74	5	73	1	73	5	294700.049	0.0800
74	1	74	0	73	0	73	0	294700.049	0.0800
74	1	74	5	73	0	73	5	294700.049	0.0800
74	1	74	1	73	0	73	2	294700.049	0.0800
74	1	74	1	73	1	73	1	294700.049	0.0800
74	1	74	3	73	0	73	4	294700.049	0.0800
75	1	75	1	74	1	74	1	298652.240	0.0800
75	0	75	0	74	1	74	0	298652.240	0.0800
75	1	75	5	74	0	74	5	298652.240	0.0800
75	0	75	5	74	1	74	5	298652.240	0.0800
75	0	75	4	74	1	74	3	298652.240	0.0800
75	0	75	2	74	1	74	1	298652.240	0.0800
75	0	75	2	74	0	74	2	298652.240	0.0800
75	1	75	1	74	0	74	2	298652.240	0.0800
75	1	75	3	74	0	74	4	298652.240	0.0800
75	1	75	0	74	0	74	0	298652.240	0.0800
76	1	76	5	75	0	75	5	302604.130	0.0800
76	0	76	2	75	1	75	1	302604.130	0.0800
76	0	76	2	75	0	75	2	302604.130	0.0800
76	0	76	0	75	1	75	0	302604.130	0.0800
76	1	76	3	75	0	75	4	302604.130	0.0800
76	0	76	4	75	1	75	3	302604.130	0.0800
76	0	76	5	75	1	75	5	302604.130	0.0800
76	1	76	0	75	0	75	0	302604.130	0.0800
76	1	76	1	75	0	75	2	302604.130	0.0800
76	1	76	1	75	1	75	1	302604.130	0.0800
77	1	77	5	76	0	76	5	306555.712	0.0800
77	1	77	1	76	0	76	2	306555.712	0.0800
77	0	77	5	76	1	76	5	306555.712	0.0800
77	1	77	1	76	1	76	1	306555.712	0.0800
77	0	77	0	76	1	76	0	306555.712	0.0800
77	0	77	2	76	1	76	1	306555.712	0.0800
77	0	77	4	76	1	76	3	306555.712	0.0800
77	1	77	0	76	0	76	0	306555.712	0.0800
77	1	77	3	76	0	76	4	306555.712	0.0800
77	0	77	2	76	0	76	2	306555.712	0.0800
78	1	78	0	77	0	77	0	310507.201	0.0800
78	1	78	1	77	1	77	1	310507.201	0.0800
78	0	78	0	77	1	77	0	310507.201	0.0800
78	1	78	1	77	0	77	2	310507.201	0.0800
78	0	78	5	77	1	77	5	310507.201	0.0800
78	0	78	2	77	0	77	2	310507.201	0.0800
78	0	78	4	77	1	77	3	310507.201	0.0800
78	0	78	2	77	1	77	1	310507.201	0.0800
78	1	78	5	77	0	77	5	310507.201	0.0800
78	1	78	3	77	0	77	4	310507.201	0.0800
79	1	79	3	78	0	78	4	314458.438	0.0800
79	1	79	1	78	0	78	2	314458.438	0.0800
79	1	79	0	78	0	78	0	314458.438	0.0800

79	1	79	1	78	1	78	1	314458.438	0.0800
79	1	79	5	78	0	78	5	314458.438	0.0800
79	0	79	0	78	1	78	0	314458.438	0.0800
79	0	79	5	78	1	78	5	314458.438	0.0800
79	0	79	4	78	1	78	3	314458.438	0.0800
79	0	79	2	78	1	78	1	314458.438	0.0800
79	0	79	2	78	0	78	2	314458.438	0.0800
82	1	82	5	81	0	81	5	326310.418	0.0800
82	1	82	3	81	0	81	4	326310.418	0.0800
82	1	82	1	81	0	81	2	326310.418	0.0800
82	0	82	2	81	0	81	2	326310.418	0.0800
82	0	82	2	81	1	81	1	326310.418	0.0800
82	0	82	0	81	1	81	0	326310.418	0.0800
82	1	82	1	81	1	81	1	326310.418	0.0800
82	0	82	5	81	1	81	5	326310.418	0.0800
82	0	82	4	81	1	81	3	326310.418	0.0800
82	1	82	0	81	0	81	0	326310.418	0.0800
83	0	83	2	82	0	82	2	330260.813	0.0800
83	0	83	0	82	1	82	0	330260.813	0.0800
83	0	83	5	82	1	82	5	330260.813	0.0800
83	1	83	0	82	0	82	0	330260.813	0.0800
83	1	83	1	82	0	82	2	330260.813	0.0800
83	1	83	3	82	0	82	4	330260.813	0.0800
83	1	83	5	82	0	82	5	330260.813	0.0800
83	0	83	4	82	1	82	3	330260.813	0.0800
83	0	83	2	82	1	82	1	330260.813	0.0800
83	1	83	1	82	1	82	1	330260.813	0.0800
84	1	84	0	83	0	83	0	334210.754	0.0800
84	1	84	3	83	0	83	4	334210.754	0.0800
84	1	84	1	83	1	83	1	334210.754	0.0800
84	1	84	1	83	0	83	2	334210.754	0.0800
84	1	84	5	83	0	83	5	334210.754	0.0800
84	0	84	5	83	1	83	5	334210.754	0.0800
84	0	84	0	83	1	83	0	334210.754	0.0800
84	0	84	2	83	1	83	1	334210.754	0.0800
84	0	84	2	83	0	83	2	334210.754	0.0800
84	0	84	4	83	1	83	3	334210.754	0.0800
85	0	85	2	84	1	84	1	338160.198	0.0800
85	1	85	3	84	0	84	4	338160.198	0.0800
85	1	85	1	84	1	84	1	338160.198	0.0800
85	1	85	1	84	0	84	2	338160.198	0.0800
85	1	85	0	84	0	84	0	338160.198	0.0800
85	0	85	5	84	1	84	5	338160.198	0.0800
85	1	85	5	84	0	84	5	338160.198	0.0800
85	0	85	2	84	0	84	2	338160.198	0.0800
85	0	85	0	84	1	84	0	338160.198	0.0800
85	0	85	4	84	1	84	3	338160.198	0.0800
87	0	87	0	86	1	86	0	346059.258	0.0800
87	0	87	5	86	1	86	5	346059.258	0.0800
87	1	87	3	86	0	86	4	346059.258	0.0800
87	1	87	1	86	0	86	2	346059.258	0.0800
87	1	87	0	86	0	86	0	346059.258	0.0800
87	0	87	2	86	0	86	2	346059.258	0.0800

87	0	87	2	86	1	86	1	346059.258	0.0800
87	1	87	5	86	0	86	5	346059.258	0.0800
87	1	87	1	86	1	86	1	346059.258	0.0800
87	0	87	4	86	1	86	3	346059.258	0.0800
88	1	88	0	87	0	87	0	350007.927	0.0800
88	1	88	3	87	0	87	4	350007.927	0.0800
88	1	88	1	87	1	87	1	350007.927	0.0800
88	1	88	1	87	0	87	2	350007.927	0.0800
88	0	88	2	87	1	87	1	350007.927	0.0800
88	1	88	5	87	0	87	5	350007.927	0.0800
88	0	88	4	87	1	87	3	350007.927	0.0800
88	0	88	5	87	1	87	5	350007.927	0.0800
88	0	88	2	87	0	87	2	350007.927	0.0800
88	0	88	0	87	1	87	0	350007.927	0.0800