

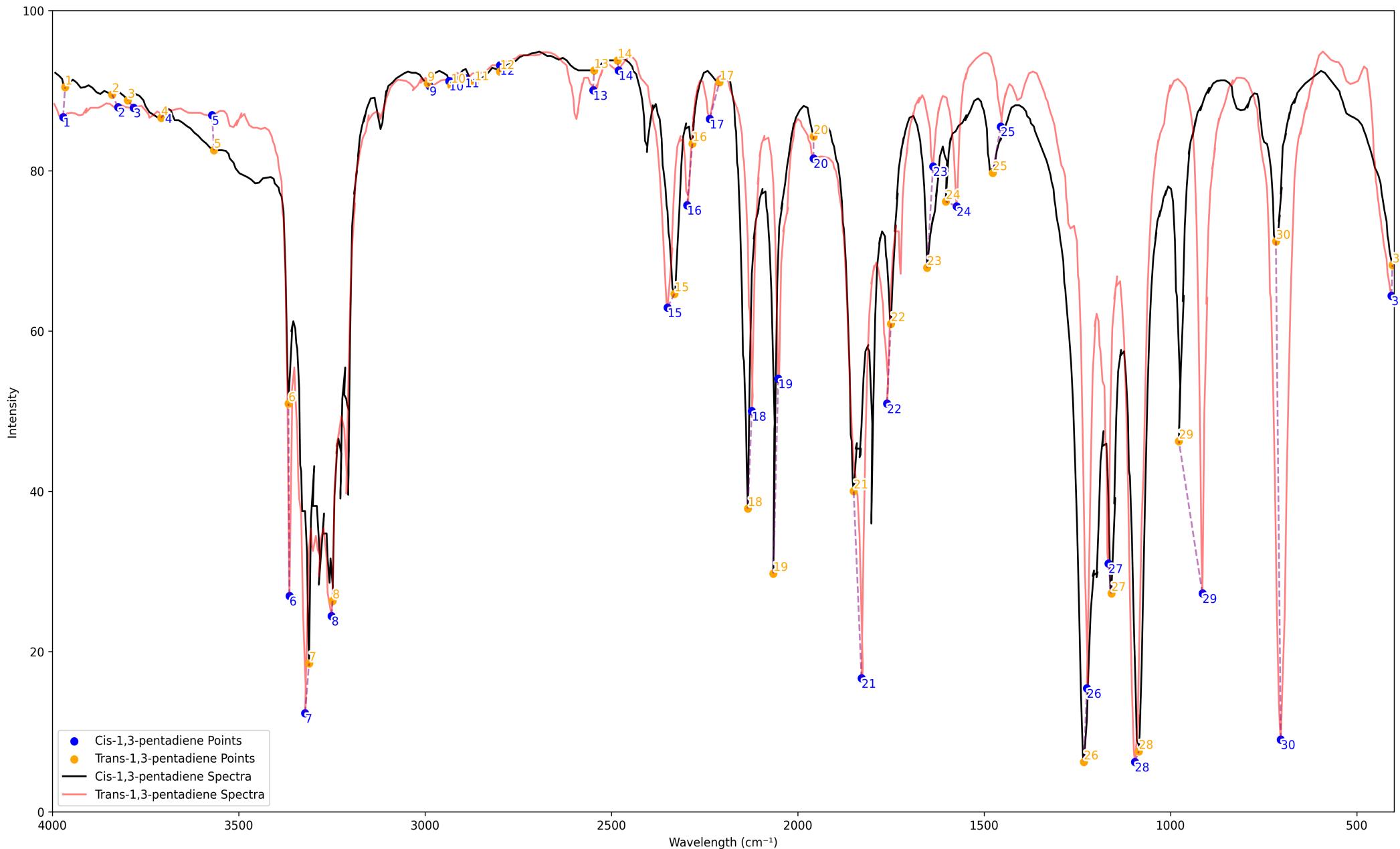
Information Details

Analyzed compound name: trans-1,3-pentadiene

Analyzed range: 25 cm⁻¹

Id	Database Compound (Most Similar to Least Similar)	Similarity Percentage (%)
1	cis-1,3-pentadiene	56.50
2	isoprene	54.79
3	trans-2-pentene	50.08
4	cyclopentene	45.38
5	3-methyl-1,2-butadiene	43.21

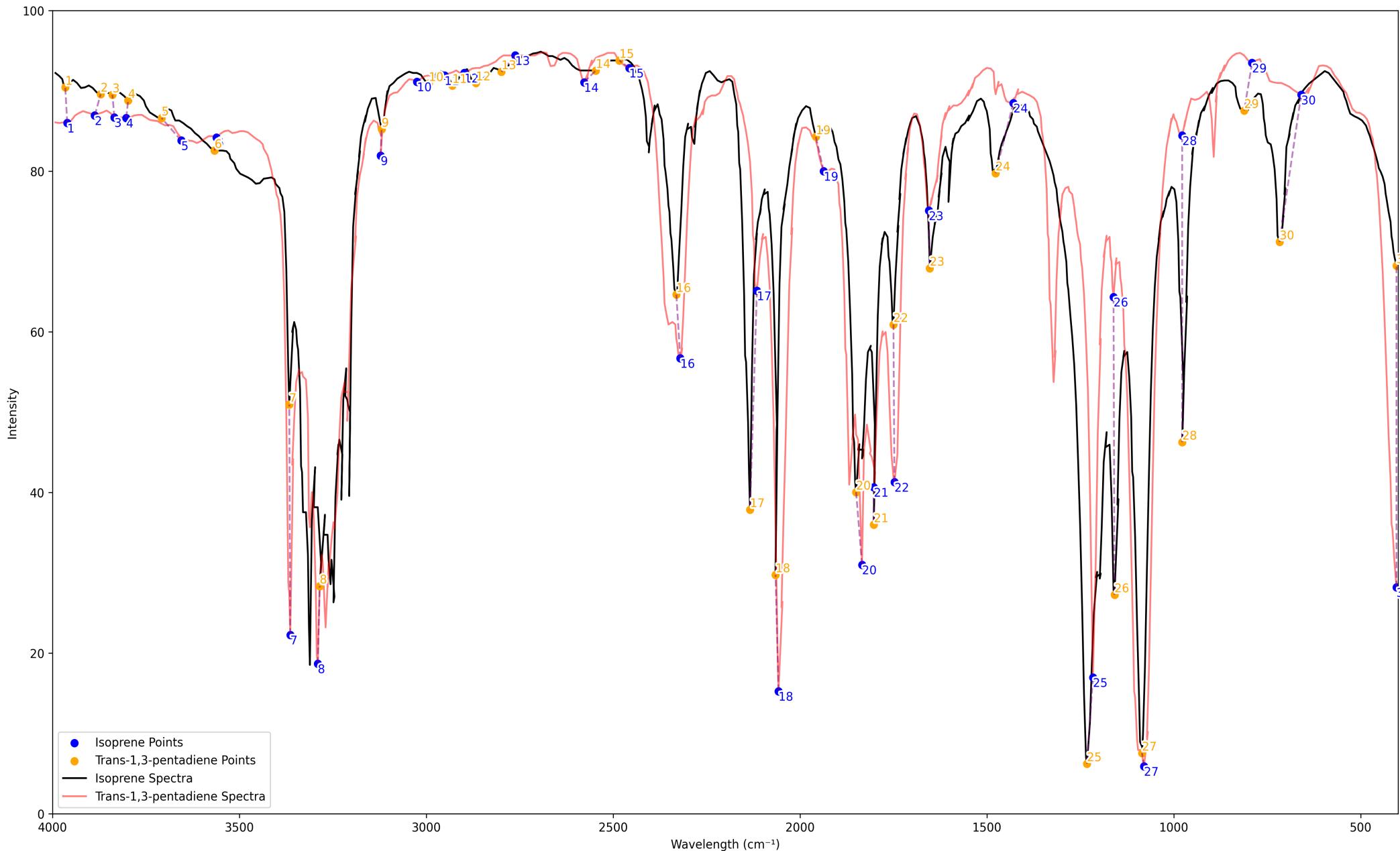
1. Cis-1,3-pentadiene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3971.42	86.70	3966.16	90.44
2	3824.21	87.95	3839.98	89.50
3	3782.15	87.87	3797.92	88.80
4	3698.03	87.17	3708.54	86.62
5	3571.85	86.93	3566.59	82.57
6	3364.17	26.95	3366.80	50.94
7	3322.11	12.30	3311.60	18.53
8	3251.14	24.46	3248.51	26.32
9	2988.26	90.59	2993.52	90.91
10	2935.69	91.22	2930.43	90.67
11	2893.63	91.61	2867.34	90.98
12	2798.99	93.16	2798.99	92.39
13	2549.26	90.05	2546.63	92.54
14	2480.91	92.54	2483.54	93.79
15	2349.47	62.94	2331.07	64.65
16	2296.90	75.71	2282.88	83.40
17	2236.44	86.46	2210.15	91.06
18	2123.40	50.01	2133.91	37.85
19	2052.42	54.06	2065.57	29.75

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1957.79	81.56	1957.79	84.28
21	1828.98	16.67	1850.01	40.04
22	1760.63	50.94	1750.11	60.91
23	1637.08	80.54	1652.85	67.92
24	1573.99	75.56	1602.90	76.18
25	1455.69	85.53	1476.72	79.77
26	1224.36	15.42	1232.25	6.23
27	1166.53	31.00	1158.64	27.26
28	1095.55	6.23	1085.04	7.55
29	914.17	27.26	977.26	46.27
30	703.87	9.03	717.01	71.20
31	406.82	64.42	404.19	68.24

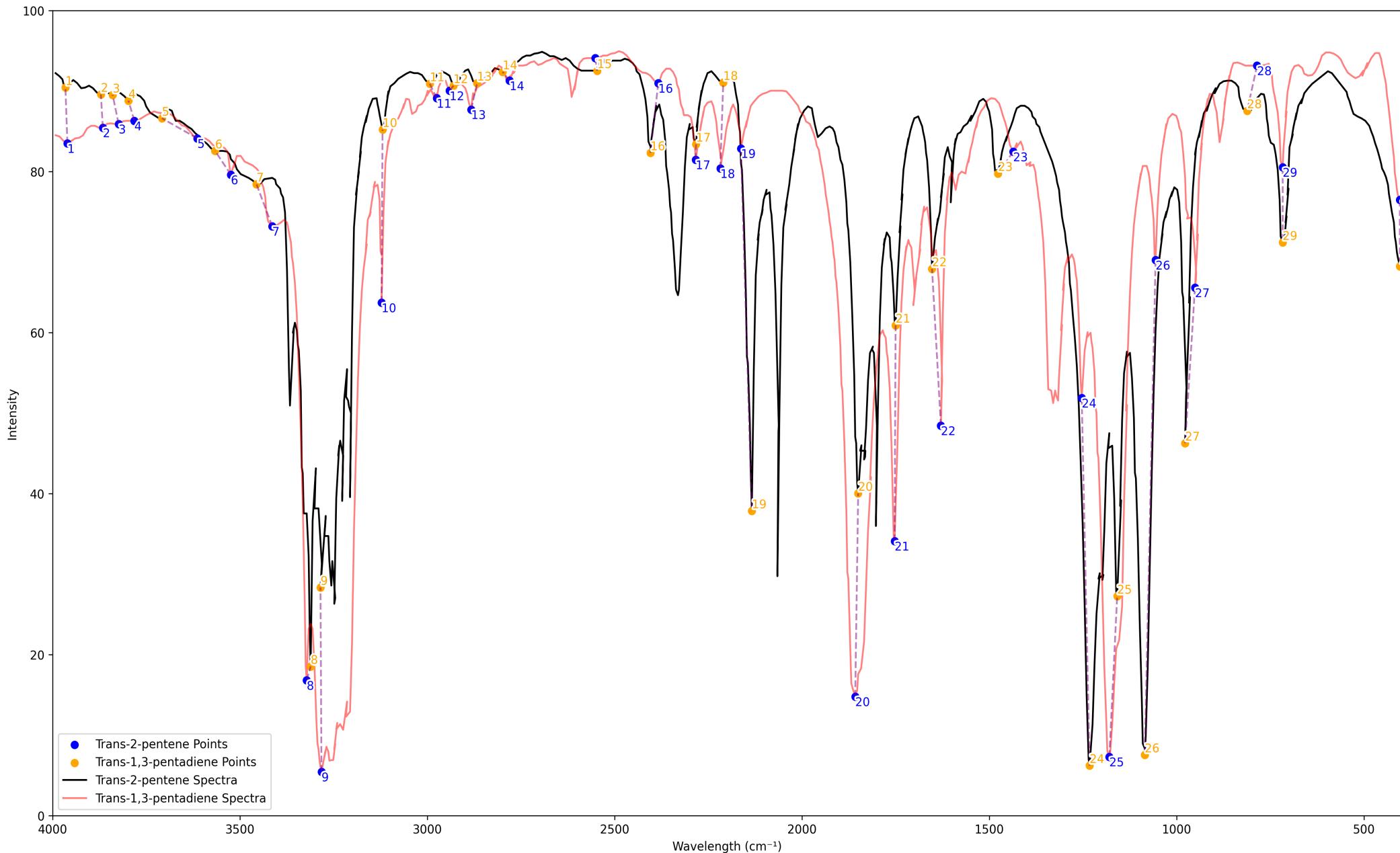
2. Isoprene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3960.90	86.00	3966.16	90.44
2	3887.30	86.93	3871.53	89.58
3	3834.72	86.70	3839.98	89.50
4	3803.18	86.62	3797.92	88.80
5	3655.97	83.82	3708.54	86.62
6	3561.33	84.21	3566.59	82.57
7	3364.17	22.27	3366.80	50.94
8	3290.57	18.69	3285.31	28.35
9	3122.33	81.95	3119.70	85.22
10	3025.06	91.14	2993.52	90.91
11	2951.46	91.92	2930.43	90.67
12	2898.88	92.23	2867.34	90.98
13	2762.19	94.41	2798.99	92.39
14	2578.17	91.06	2546.63	92.54
15	2457.25	92.85	2483.54	93.79
16	2320.56	56.71	2331.07	64.65
17	2115.51	65.12	2133.91	37.85
18	2057.68	15.26	2065.57	29.75
19	1936.76	80.00	1957.79	84.28

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1834.24	31.00	1850.01	40.04
21	1802.69	40.66	1802.69	35.98
22	1747.49	41.28	1750.11	60.91
23	1655.48	75.09	1652.85	67.92
24	1429.41	88.49	1476.72	79.77
25	1216.48	16.98	1232.25	6.23
26	1161.27	64.34	1158.64	27.26
27	1079.78	5.91	1085.04	7.55
28	977.26	84.44	977.26	46.27
29	790.62	93.48	811.65	87.56
30	659.18	89.50	717.01	71.20
31	404.19	28.19	404.19	68.24

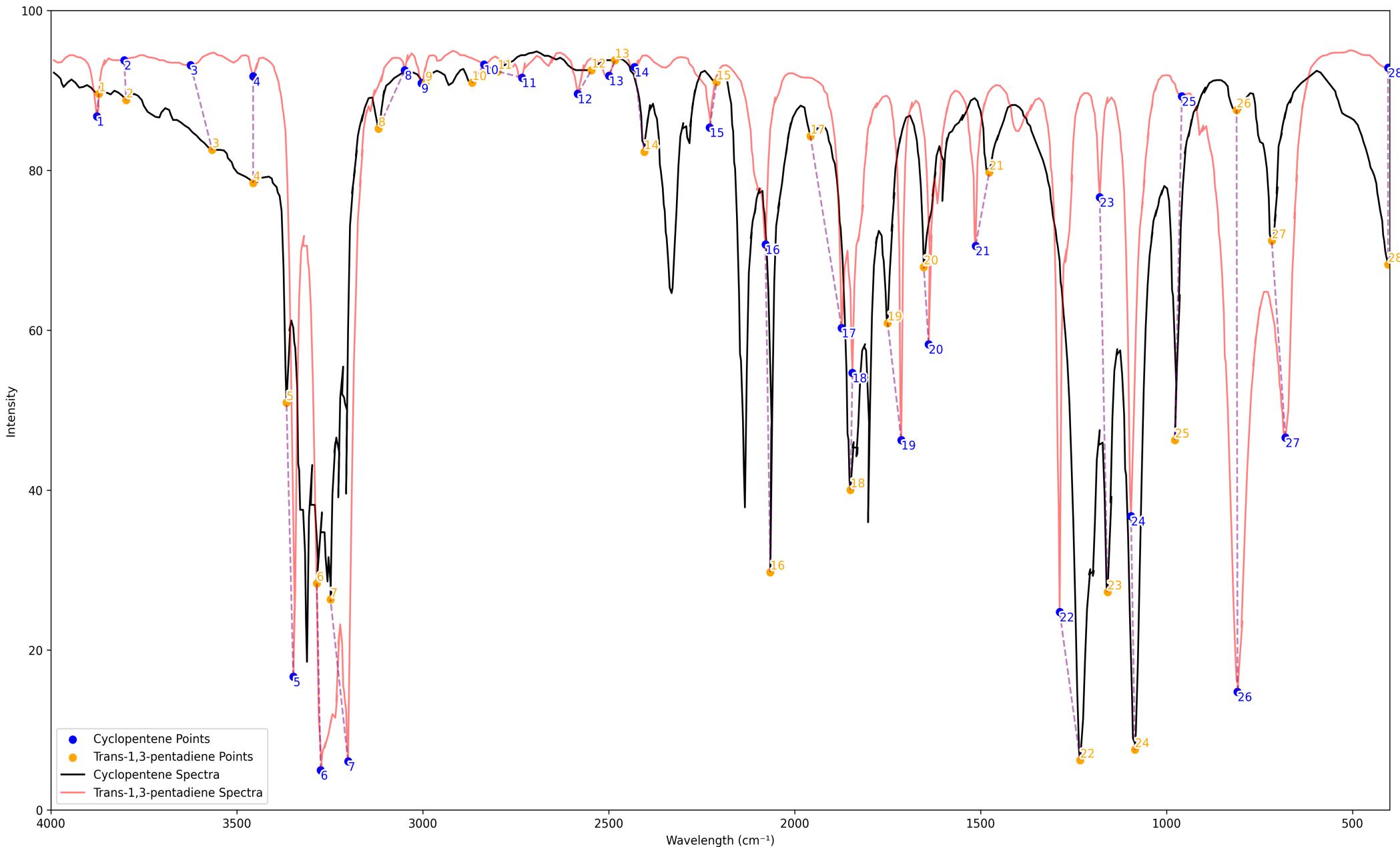
3. Trans-2-pentene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3960.90	83.50	3966.16	90.44
2	3866.27	85.45	3871.53	89.58
3	3824.21	85.92	3839.98	89.50
4	3782.15	86.31	3797.92	88.80
5	3613.91	84.13	3708.54	86.62
6	3524.53	79.61	3566.59	82.57
7	3414.12	73.22	3456.18	78.44
8	3322.11	16.82	3311.60	18.53
9	3282.68	5.45	3285.31	28.35
10	3122.33	63.72	3119.70	85.22
11	2975.12	89.11	2993.52	90.91
12	2940.94	90.05	2930.43	90.67
13	2883.11	87.71	2867.34	90.98
14	2780.59	91.29	2798.99	92.39
15	2551.89	94.10	2546.63	92.54
16	2383.65	90.98	2404.68	82.34
17	2283.75	81.48	2282.88	83.40
18	2218.03	80.39	2210.15	91.06
19	2162.83	82.88	2133.91	37.85

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1857.89	14.80	1850.01	40.04
21	1752.74	34.12	1750.11	60.91
22	1629.19	48.45	1652.85	67.92
23	1436.42	82.47	1476.72	79.77
24	1253.28	51.88	1232.25	6.23
25	1179.67	7.32	1158.64	27.26
26	1056.12	69.01	1085.04	7.55
27	950.97	65.59	977.26	46.27
28	785.36	93.16	811.65	87.56
29	717.01	80.54	717.01	71.20
30	404.19	76.49	404.19	68.24

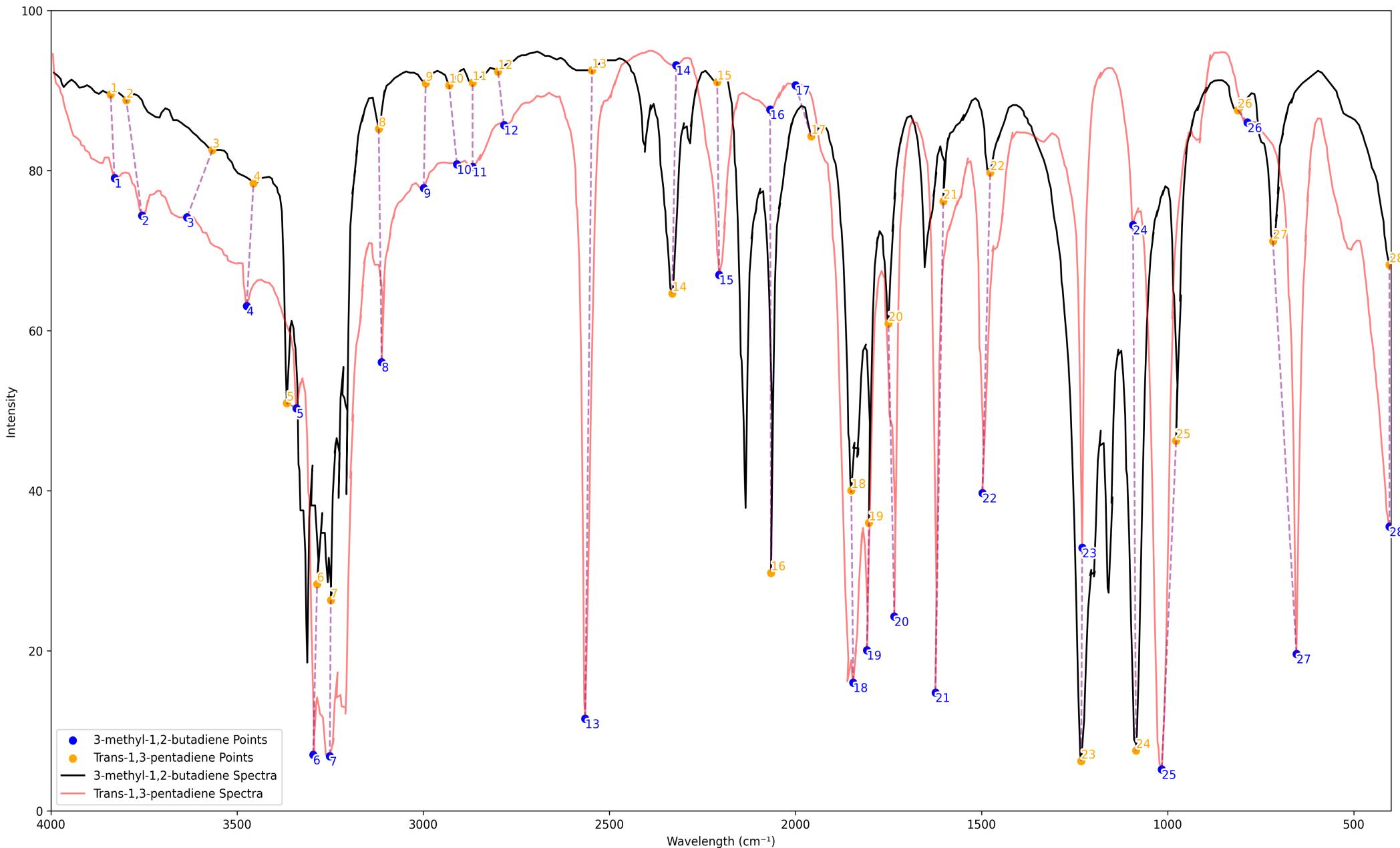
4. Cyclopentene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3876.78	86.78	3871.53	89.58
2	3803.18	93.79	3797.92	88.80
3	3624.42	93.16	3566.59	82.57
4	3456.18	91.76	3456.18	78.44
5	3348.40	16.67	3366.80	50.94
6	3274.80	4.98	3285.31	28.35
7	3201.19	6.07	3248.51	26.32
8	3048.72	92.54	3119.70	85.22
9	3004.03	90.91	2993.52	90.91
10	2835.79	93.24	2867.34	90.98
11	2733.27	91.61	2798.99	92.39
12	2583.43	89.58	2546.63	92.54
13	2499.31	91.84	2483.54	93.79
14	2430.96	92.93	2404.68	82.34
15	2228.55	85.37	2210.15	91.06
16	2078.71	70.73	2065.57	29.75
17	1873.67	60.29	1957.79	84.28
18	1844.75	54.68	1850.01	40.04
19	1713.31	46.27	1750.11	60.91

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1639.71	58.26	1652.85	67.92
21	1513.53	70.57	1476.72	79.77
22	1287.45	24.77	1232.25	6.23
23	1179.67	76.65	1158.64	27.26
24	1095.55	36.76	1085.04	7.55
25	958.86	89.27	977.26	46.27
26	809.02	14.80	811.65	87.56
27	680.21	46.58	717.01	71.20
28	404.19	92.85	404.19	68.24

5. 3-methyl-1,2-butadiene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3829.47	79.06	3839.98	89.50
2	3755.86	74.39	3797.92	88.80
3	3634.94	74.16	3566.59	82.57
4	3474.58	63.09	3456.18	78.44
5	3340.52	50.32	3366.80	50.94
6	3295.83	7.01	3285.31	28.35
7	3251.14	6.85	3248.51	26.32
8	3111.81	56.08	3119.70	85.22
9	2998.78	77.82	2993.52	90.91
10	2909.40	80.78	2930.43	90.67
11	2867.34	80.47	2867.34	90.98
12	2783.22	85.69	2798.99	92.39
13	2565.03	11.52	2546.63	92.54
14	2320.56	93.16	2331.07	64.65
15	2204.89	66.99	2210.15	91.06
16	2068.20	87.63	2065.57	29.75
17	1999.85	90.67	1957.79	84.28
18	1844.75	16.04	1850.01	40.04
19	1807.95	20.09	1802.69	35.98

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1734.34	24.30	1750.11	60.91
21	1623.93	14.80	1602.90	76.18
22	1497.75	39.72	1476.72	79.77
23	1229.62	32.87	1232.25	6.23
24	1092.92	73.22	1085.04	7.55
25	1015.81	5.19	977.26	46.27
26	785.36	86.00	811.65	87.56
27	653.92	19.63	717.01	71.20
28	404.19	35.52	404.19	68.24