

The infrared spectrum of polyacetylene displays a broad transmittance range from 4000 to 450 cm⁻¹. The y-axis represents %T (10 to 94) and the x-axis represents cm⁻¹ (4000 to 450). The spectrum is characterized by several sharp absorption bands, particularly in the 3000-1500 cm⁻¹ region. The following table lists the labeled peaks and their corresponding transmittance values:

Wavenumber (cm ⁻¹)	Transmittance (%T)
3070.85	70.31
2979.90	68.48
2666.35	66.63
2827.25	65.63
2555.04	63.90
2087.29	83.34
1915.20	83.12
1793.29	83.34
1680.53	18.28
1600.93	53.78
1582.47	50.18
1496.23	73.91
1452.99	45.22
1419.43	41.47
1323.16	33.18
1278.27	19.03
1228.27	19.03
1100.51	69.49
1072.43	56.64
1026.35	54.78
1002.26	50.09
999.94	70.86
931.66	35.58
847.69	34.12
828.27	18.9
793.92	12.93
665.97	18.9
616.82	66

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