

The IR spectrum of poly(2-vinylpyridine) displays characteristic absorption bands. The x-axis represents the wavenumber in cm⁻¹, ranging from 4000 to 450. The y-axis represents the percentage of transmittance (%T), ranging from 69 to 98. The spectrum shows a broad absorption band around 3308 cm⁻¹, likely due to N-H stretching, and a sharp peak at 2975 cm⁻¹, characteristic of C-H stretching. The fingerprint region (below 1500 cm⁻¹) contains numerous sharp peaks, including prominent ones at 1510, 1449, 1256, 1028, 811, and 754 cm⁻¹, which are typical for the pyridine ring and the polymer backbone.

Wavenumber (cm ⁻¹)	Transmittance (%T)
3308.53	92.47
2975.24	90.97
1595.33	84.83
1510.13	80.35
1467.28	87.99
1449.75	79.60
1328.79	87.99
1256.33	69.43
1193.08	87.25
1028.79	88.38
890.15	81.28
846.18	87.34
811.81	90.21
777.08	77.85
754.14	70.69
701.94	85.27
631.89	85.61
587.86	85.61
534.48	85.27
508.11	85.27
549.67	85.27
520.75	85.27
475.81	85.27

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