

The infrared spectrum displays the transmittance (%T) of 2,2,4,4-tetramethyl-1,3-dioxane across a range of wavenumbers from 4000 to 450 cm⁻¹. The baseline is stable at approximately 92%T until about 3000 cm⁻¹, where it begins to drop, reaching a minimum of about 75%T around 2500 cm⁻¹ before rising back to the baseline. The most prominent features are the sharp, intense peaks in the fingerprint region (below 1500 cm⁻¹), with several peaks exceeding 80%T. The following table lists the 26 labeled peaks with their corresponding wavenumbers and transmittance values:

Wavenumber (cm ⁻¹)	Transmittance (%T)
3071.26	79.98
2826.21	76.75
2553.58	75.33
2666.92	77.12
1915.26	86.94
1791.44	87.83
1496.27	79.18
1452.96	59.22
1419.25	57.97
1323.09	50.31
1307.18	52.03
1288.11	38.22
1271.24	63.84
1221.24	63.84
1180.22	61.75
1100.49	74.83
1026.38	65.44
1004.61	61.75
999.99	76.50
804.61	61.75
704.47	30.39
683.32	48.08
666.06	35.01
1680.09	39.59
1601.93	66.67
1582.56	63.78
1502.28	66.49
1472.28	66.49

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