

IR spectrum of compound 10. The x-axis represents wavenumber in  $\text{cm}^{-1}$  (4000 to 450), and the y-axis represents transmittance (%T) (21 to 76). The spectrum shows characteristic absorption bands for the compound, with peaks labeled as follows:

- 3442.72  $\text{cm}^{-1}$ , 66.71%T
- 2967.11  $\text{cm}^{-1}$ , 64.14%T
- 2839.07  $\text{cm}^{-1}$ , 64.46%T
- 2441.26  $\text{cm}^{-1}$ , 65.74%T
- 1908.08  $\text{cm}^{-1}$ , 66.78%T
- 1731.18  $\text{cm}^{-1}$ , 56.16%T
- 1624.23  $\text{cm}^{-1}$ , 60.64%T
- 1569.89  $\text{cm}^{-1}$ , 60.00%T
- 1368.89  $\text{cm}^{-1}$ , 69.56%T
- 1306.72  $\text{cm}^{-1}$ , 65.88%T
- 1187.47  $\text{cm}^{-1}$ , 38.47%T
- 1165.32  $\text{cm}^{-1}$ , 52.59%T
- 1101.91  $\text{cm}^{-1}$ , 40.36%T
- 1053.41  $\text{cm}^{-1}$ , 48.80%T
- 1002.10  $\text{cm}^{-1}$ , 45.74%T
- 976.69  $\text{cm}^{-1}$ , 54.33%T
- 954.53  $\text{cm}^{-1}$ , 50.89%T
- 911.91  $\text{cm}^{-1}$ , 49.91%T
- 894.78  $\text{cm}^{-1}$ , 54.01%T
- 850.73  $\text{cm}^{-1}$ , 22.33%T
- 836.05  $\text{cm}^{-1}$ , 28.88%T
- 819.05  $\text{cm}^{-1}$ , 32.82%T
- 784.78  $\text{cm}^{-1}$ , 34.36%T
- 748.62  $\text{cm}^{-1}$ , 31.96%T
- 707.12  $\text{cm}^{-1}$ , 34.36%T
- 685.76  $\text{cm}^{-1}$ , 30.35%T
- 631.82  $\text{cm}^{-1}$ , 52.11%T
- 602.88  $\text{cm}^{-1}$ , 49.67%T
- 598.88  $\text{cm}^{-1}$ , 45.73%T
- 558.88  $\text{cm}^{-1}$ , 45.73%T
- 511.91  $\text{cm}^{-1}$ , 49.67%T
- 494.97  $\text{cm}^{-1}$ , 52.11%T
- 470.66  $\text{cm}^{-1}$ , 54.01%T
- 434.56  $\text{cm}^{-1}$ , 50.89%T
- 411.91  $\text{cm}^{-1}$ , 49.91%T
- 393.60  $\text{cm}^{-1}$ , 39.36%T
- 370.66  $\text{cm}^{-1}$ , 34.36%T
- 337.83  $\text{cm}^{-1}$ , 34.53%T
- 319.99  $\text{cm}^{-1}$ , 39.36%T
- 306.72  $\text{cm}^{-1}$ , 65.88%T
- 296.72  $\text{cm}^{-1}$ , 65.88%T
- 283.91  $\text{cm}^{-1}$ , 64.46%T
- 267.11  $\text{cm}^{-1}$ , 64.14%T
- 244.13  $\text{cm}^{-1}$ , 65.74%T
- 223.18  $\text{cm}^{-1}$ , 56.16%T
- 208.08  $\text{cm}^{-1}$ , 66.78%T
- 190.81  $\text{cm}^{-1}$ , 66.78%T
- 173.12  $\text{cm}^{-1}$ , 56.16%T
- 162.42  $\text{cm}^{-1}$ , 60.64%T
- 156.99  $\text{cm}^{-1}$ , 60.00%T
- 136.89  $\text{cm}^{-1}$ , 69.56%T
- 130.67  $\text{cm}^{-1}$ , 65.88%T
- 118.75  $\text{cm}^{-1}$ , 38.47%T
- 116.53  $\text{cm}^{-1}$ , 52.59%T
- 110.19  $\text{cm}^{-1}$ , 40.36%T
- 105.34  $\text{cm}^{-1}$ , 48.80%T
- 100.21  $\text{cm}^{-1}$ , 45.74%T
- 97.67  $\text{cm}^{-1}$ , 54.33%T
- 95.45  $\text{cm}^{-1}$ , 50.89%T
- 91.19  $\text{cm}^{-1}$ , 49.91%T
- 89.48  $\text{cm}^{-1}$ , 54.01%T
- 85.07  $\text{cm}^{-1}$ , 22.33%T
- 83.61  $\text{cm}^{-1}$ , 28.88%T
- 81.91  $\text{cm}^{-1}$ , 32.82%T
- 78.48  $\text{cm}^{-1}$ , 34.36%T
- 74.86  $\text{cm}^{-1}$ , 31.96%T
- 70.71  $\text{cm}^{-1}$ , 34.36%T
- 68.58  $\text{cm}^{-1}$ , 30.35%T
- 63.18  $\text{cm}^{-1}$ , 52.11%T
- 60.29  $\text{cm}^{-1}$ , 49.67%T
- 59.89  $\text{cm}^{-1}$ , 45.73%T
- 55.89  $\text{cm}^{-1}$ , 45.73%T
- 51.19  $\text{cm}^{-1}$ , 49.67%T
- 49.49  $\text{cm}^{-1}$ , 52.11%T
- 47.07  $\text{cm}^{-1}$ , 54.01%T
- 43.46  $\text{cm}^{-1}$ , 50.89%T
- 41.19  $\text{cm}^{-1}$ , 49.91%T
- 39.36  $\text{cm}^{-1}$ , 39.36%T
- 37.07  $\text{cm}^{-1}$ , 34.36%T
- 33.78  $\text{cm}^{-1}$ , 34.53%T
- 31.99  $\text{cm}^{-1}$ , 39.36%T
- 30.67  $\text{cm}^{-1}$ , 65.88%T
- 29.67  $\text{cm}^{-1}$ , 65.88%T
- 28.39  $\text{cm}^{-1}$ , 64.46%T
- 26.71  $\text{cm}^{-1}$ , 64.14%T
- 24.41  $\text{cm}^{-1}$ , 65.74%T
- 22.32  $\text{cm}^{-1}$ , 56.16%T
- 20.81  $\text{cm}^{-1}$ , 66.78%T
- 19.08  $\text{cm}^{-1}$ , 66.78%T
- 17.31  $\text{cm}^{-1}$ , 56.16%T
- 16.24  $\text{cm}^{-1}$ , 60.64%T
- 15.69  $\text{cm}^{-1}$ , 60.00%T
- 13.69  $\text{cm}^{-1}$ , 69.56%T
- 13.07  $\text{cm}^{-1}$ , 65.88%T
- 11.87  $\text{cm}^{-1}$ , 38.47%T
- 11.65  $\text{cm}^{-1}$ , 52.59%T
- 11.02  $\text{cm}^{-1}$ , 40.36%T
- 10.53  $\text{cm}^{-1}$ , 48.80%T
- 10.02  $\text{cm}^{-1}$ , 45.74%T
- 9.77  $\text{cm}^{-1}$ , 54.33%T
- 9.54  $\text{cm}^{-1}$ , 50.89%T
- 9.12  $\text{cm}^{-1}$ , 49.91%T
- 8.95  $\text{cm}^{-1}$ , 54.01%T
- 8.51  $\text{cm}^{-1}$ , 22.33%T
- 8.36  $\text{cm}^{-1}$ , 28.88%T
- 8.19  $\text{cm}^{-1}$ , 32.82%T
- 7.85  $\text{cm}^{-1}$ , 34.36%T
- 7.49  $\text{cm}^{-1}$ , 31.96%T
- 7.07  $\text{cm}^{-1}$ , 34.36%T
- 6.86  $\text{cm}^{-1}$ , 30.35%T
- 6.32  $\text{cm}^{-1}$ , 52.11%T
- 6.03  $\text{cm}^{-1}$ , 49.67%T
- 5.99  $\text{cm}^{-1}$ , 45.73%T
- 5.59  $\text{cm}^{-1}$ , 45.73%T
- 5.12  $\text{cm}^{-1}$ , 49.67%T
- 4.95  $\text{cm}^{-1}$ , 52.11%T
- 4.71  $\text{cm}^{-1}$ , 54.01%T
- 4.35  $\text{cm}^{-1}$ , 50.89%T
- 4.12  $\text{cm}^{-1}$ , 49.91%T
- 3.94  $\text{cm}^{-1}$ , 39.36%T
- 3.71  $\text{cm}^{-1}$ , 34.36%T
- 3.38  $\text{cm}^{-1}$ , 34.53%T
- 3.2  $\text{cm}^{-1}$ , 39.36%T
- 3.07  $\text{cm}^{-1}$ , 65.88%T

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