

The figure displays an infrared (IR) spectrum plot for compound 10. The x-axis represents the wavenumber in cm⁻¹, ranging from 500 to 4000. The y-axis represents the transmittance. Two spectra are overlaid: the 'true spectrum' (blue line) and the 'predicted spectrum' (orange line). The predicted spectrum closely follows the true spectrum, with a similarity score (SIS) of 0.8454. The chemical structure of compound 10 is shown as an inset in the upper right quadrant of the plot area. The structure is a long-chain molecule with a central five-membered ring containing a carbonyl group and a double bond, and two long alkyl chains extending from the ring, one ending in a carboxylic acid group and the other in a methyl group.

