

## Metadata

Here, the uploaded data are associated with the manuscript "Nucleophiles Target the Tungsten Center Over Acetylene in Biomimetic Models" published in Inorg. Chem. under the following <https://doi.org/10.1021/acs.inorgchem.4c00286>

The .dpt files represent IR spectra of the compounds published in the manuscript. Gas IR spectrum is reported as .scv file. The .scv files represent NMR spectra of the compounds and reactions published in the manuscript. Line Shape Analysis calculation is presented in the excel file.

The labeling of the compounds and reactions follows the one in the published manuscript.