Abstract (provided by SMM)

Mesitylene reacts with molybdenum hexacarbonyl to give the yellow octahedral complex [1,3,5-C₆H₃(CH₃)]Mo(CO)₃ in low yield (26.3%). The infrared spectrum of [1,3,5-C₆H₃(CH₃)]Mo(CO)₃ shows symmetric C=O stretching at 1946 cm-1 with intensity of 0.674 and asymmetric stretching at 1879 cm-1 with intensity of 0.689. Based on the intensities of the two carbonyl peaks, the calculated C-Mo-C bond angle is 76°.

(where red is what you did, green is what you got, and blue is what you think based on the results)