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MW $\text{C}_9\text{H}_{10}\text{FeO}_3$ **Tricarbonyl(*trans,trans*-2,4-hexadiene)iron**
Tricarbonyl[(1,2,3,4- η)-(*E,E*)-1,3-hexadiene]iron C_s

r_0	\AA^{a}	θ_0	deg^{a}
Fe...X ^b	1.7684(50)	Fe...X...M ^c	160.0(10)
C(1)–C(2)	1.5117(50)		

Only the *trans,trans* isomer was detected. The potential barrier to methyl internal rotation was determined to be 779.3 cm^{-1} .

^a) Uncertainties were not estimated in the original paper.

^b) X denotes the center of the trapezoid formed by the four carbon atoms of the diene unit.

^c) M denotes the middle point of the C(3)–C(4) bond.

Indris, O., Stahl, W.: J. Mol. Spectrosc. **199** (2000) 259.

