Exercise: Identify the H-H and P-H coupling in vinyl diphenyl phosphine

C_{12}H_{13}P
300 MHz $^1$H NMR spectrum in CDCl$_3$
Source: Aldrich Spectra Collection/Reich g

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C_{20}H_{18}Si
300 MHz $^1$H NMR spectrum in CDCl$_3$
Source: Aldrich Spectra Collection/Reich g

- $^3J_{HH}$(trans) = 18.4 Hz
- $^3J_{HH}$(cis) = 11.4 Hz
- $^3J_{HH}$(gem) = 1.8 Hz
- $^3J_{HP}$(trans) = 32.0 Hz
- $^3J_{HP}$(cis) = 14.0 Hz
- $^2J_{HH}$(gem) = 1.8 Hz
- $^2J_{HH}$(gem) = 1.8 Hz