

Nucleus

Larmor Frequency = Gyromagnetic Ratio × External Magnetic Field (1)

DATA SOURCE

- NMR NOMENCLATURE. NUCLEAR SPIN PROPERTIES AND CONVENTIONS FOR CHEMICAL SHIFTS (IUPAC RECOMMENDATIONS 2001)
- ELECTRON GYROMAGNETIC RATIO: <u>HTTPS://PHYSICS.NIST.GOV/CGI-BIN/CUU/VALUE?</u> GAMMAE

Signal

RF Pulse

Flip Angle (°) =
$$360 \times RF$$
 Amplitude × Pulse Duration (4)

Relative RF Power (dB) =
$$20 \times \log_{10} \frac{\text{RF amplitude 2}}{\text{RF amplitude 1}}$$
 (5)

Ernst Angle

$$\cos\left(\text{Ernst Angle}\right) = \exp\left(-\frac{\text{Repetition Time}}{\text{Relaxation Time}}\right) \tag{6}$$