"X" Chemical Shift Reference Compounds & Conditions

Applicable to the NMR^3 High-Resolution NMR Spectrometers Only

Isotope	Spin	Reference Compound	Conditions
^{1}H	½	TMS	$CDCl_3$, φ = 1 %
		DSS Methyl Signal	In D_2O
^{2}H	1	$(CD_3)_4Si$	Neat
^{6}Li	1	LiCl	D_2O, 9.7 mol/kg
^{7}Li	3/2	LiCl	D_2O, 9.7 mol/kg
^{10}B	3	$BF_3.Et_2O$	$CDCl_3$, φ = 15 %
^{11}B	3/2	$BF_3.Et_2O$	$CDCl_3$, φ = 15 %
^{13}C	½	TMS	$CDCl_3$, φ = 1 %
		DSS Methyl Signal	In D_2O
^{14}N	1	$MeNO_2$	neat ($CDCl_3$ for lock)
^{15}N	½	$MeNO_2$	neat ($CDCl_3$ for lock)
$^{15N}\delta(NH3)$ = -380.2 ppm		NH_3 (liquid)	external
^{17}O	5/2	D_2O	neat
^{19}F	½	CCl_3F	-
^{23}Na	3/2	NaCl	D_2O, 0.1 mol/dm^3
^{25}Mg	5/2	$MgCl_2$	D_2O, 11 mol/dm^3
^{27}Al	5/2	$Al(NO_3)_3$	D_2O, 1.1 mol/kg
^{29}Si	½	TMS	$CDCl_3$, φ = 1 %
^{31}P	½	H_3PO_4	-
^{51}V	7/2	$VOCl_3$	neat (C_6D_6 for lock)
^{77}Se	½	Me_2Se	neat (C_6D_6 for lock)
^{109}Ag (& ^{107}Ag)	½	$AgNO_3$	D_2O saturated
^{119}Sn (& $^{117/115}Sn$)	½	Me_4Sn	neat (C_6D_6 for lock)
^{195}Pt	½	Na_2PtCl_6	D_20, 1.2 mol/dm^3
^{199}Hg	½	Me_2Hg	neat
^{207}Pb	½	Me_4Pb	neat (C_6D_6 for lock)