

NMR Reference Standards



Reference Standard Quality

Paramagnetic oxygen has been completely removed from most reference standards to ensure it does not affect your resolution or line shape.



NMR Reference Standards Selection Guide

Application	Catalog No. <i>WG-R-01</i>	<i>WG-R-02</i>	<i>WG-R-03</i>	<i>WG-R-04</i>	<i>WG-R-05</i>	<i>WG-R-06</i>	<i>WG-R-07</i>	<i>WG-R-08</i>	<i>WG-R-09</i>	<i>WG-R-10</i>	<i>WG-R-11</i>	<i>WG-R-12</i>	<i>WG-R-13</i>	<i>WG-R-14</i>
¹ H Sensitivity	●													
¹³ CSensitivity				●	●									
¹⁹ FSensitivity											●			
³¹ PSensitivity											●		●	
¹ H Lineshape		●	●	●										
¹ H & ¹³ CCalibration							●							
Temperature Calibration								●						
Low Temperature Calibration									●					
High Temperature Calibration										●				

NMR Reference Standards

Wilmad NMR Reference Standards are packaged in ultra-highfield precision tubes to guarantee their performance in experiments over 600MHz.

- Certificate of Analysis (CofA) supplied with each standard
- Meet or exceed requirements set by NMR spectrometer manufacturers
- All standards are backward compatible with NMR experiments below 600MHz

3mm O.D. NMR Reference Standards

Catalog No.	MHz Rating	Length	Description	Application
WG-R-01-3 [*]	600+	8"	0.1% ethylbenzene in chloroform-d	¹ HSensitivity
WG-R-02-3 [*]	600+	8"	3% CHCl ₃ / 0.2% TMS in acetone-d ₆	¹ H Lineshape
WG-R-03-3 [*]	600+	8"	1% CHCl ₃ in acetone-d ₆	¹ H Lineshape
WG-R-05-3 [*]	600+	8"	10% ethylbenzene in chloroform-d	¹³ CSensitivity
WG-R-06-3 [*]	600+	8"	40% dioxane in benzene-d ₆	¹³ CSensitivity
WG-R-08-3 [*]	600+	8"	0.1mg/mL GdCl ₃ in D ₂ O with 1% H ₂ O + 0.1% CH ₃ OH enriched ¹³ C	¹ H and ¹³ CCalibration
WG-R-10-3 [*]	600+	8"	4% methanol in methanol-d ₄	Low Temperature Calibration
WG-R-11-3 [*]	600+	8"	80% glycol in DMSO-d ₆	High Temperature Calibration
WG-R-14-3 [*]	600+	8"	0.0485M triphenylphosphate in CDCl ₃	³¹ PSensitivity

5mm O.D. NMR Reference Standards

Catalog No.	MHz Rating	Length	Description	Application
WG-R-01-5 [*]	600+	8"	0.1% ethylbenzene in chloroform-d	¹ HSensitivity
WG-R-02-5 [*]	600+	8"	3% CHCl ₃ / 0.2% TMS in acetone-d ₆	¹ H Lineshape
WG-R-03-5 [*]	600+	8"	1% CHCl ₃ in acetone-d ₆	¹ H Lineshape
WG-R-03-5-7 [*]	600+	7"	1% CHCl ₃ in acetone-d ₆	¹ H Lineshape
WG-R-04-5 [*]	600+	8"	0.3% CHCl ₃ in acetone-d ₆	¹ H Lineshape
WG-R-05-5 [*]	600+	8"	10% ethylbenzene in chloroform-d	¹³ CSensitivity
WG-R-06-5 [*]	600+	8"	40% dioxane in benzene-d ₆	¹³ CSensitivity
WG-R-08-5 [*]	600+	8"	0.1mg/mL GdCl ₃ in D ₂ O with 1% H ₂ O + 0.1% CH ₃ OH enriched ¹³ C	¹ H and ¹³ CCalibration
WG-R-09-5 [*]	600+	8"	99.8% methanol-d ₄	Temperature Calibration
WG-R-10-5 [*]	600+	8"	4% methanol in methanol-d ₄	Low Temperature Calibration
WG-R-11-5 [*]	600+	8"	80% glycol in DMSO-d ₆	High Temperature Calibration
WG-R-12-5 [*]	600+	8"	3mM triphenylphosphate in CDCl ₃	³¹ PSensitivity
WG-R-13-5 [*]	600+	8"	0.05% trifluorotoluene in CDCl ₃	¹⁹ FSensitivity
WG-R-14-5 [*]	600+	8"	0.0485M triphenylphosphate in CDCl ₃	³¹ PSensitivity

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