

appendix g. chemical shifts of residual protons in commercially available deuterated solvents. (source: merck sharp and dohme of canada, ltd.)

Solvent	Isotopic Purity Atom % D	Positions of Residual Protons					
		Group	δ	Group	δ	Group	δ
Acetic Acid-d ₄	99.5	methyl	2.05	hydroxyl	11.53 ^a		
Acetone-d ₆	99.5	methyl	2.05				
Acetonitrile-d ₃	98	methyl	1.95				
Benzene-d ₆	99.5	methine	7.20				
Chloroform-d	99.8	methine	7.25				
Cyclohexane-d ₁₂	99	methylene	1.40				
Deuterium Oxide	99.8	hydroxyl	4.75 ^a				
1,2-Dichloroethane-d ₄	99	methylene	3.69				
Diethyl-d ₁₀ Ether	98	methyl	1.16	methylene	3.36		
Dimethylformamide-d ₇	98	methyl	2.76	methyl	2.94	formyl	8.05
Dimethyl-d ₆ Sulfoxide	99.5	methyl	2.50				
p-Dioxane-d ₈	98	methylene	3.55				
Ethyl Alcohol-d ₆ (anh.)	98	methyl	1.17	methylene	3.59	hydroxyl	2.60 ^a
Hexafluoroacetone Deuterate	99.5	hydroxyl	9.0 ^a				
Methyl Alcohol-d ₄	99	methyl	3.35	hydroxyl	4.84 ^a		
Methylcyclohexane-d ₁₄	99	methyl	0.92	methylene	1.54	methine	1.65
Methylene-d ₂ Chloride	99	methylene	5.35				
Pyridine-d ₅	99	alpha	8.70	beta	7.20	gamma	7.58
Silnar ^c -C (CDCl ₃ + 1% TMS)	99.8	methyl	0.00	methine	7.25		
Tetrahydrofuran-d ₈	98	α -methylene	3.60	β -methylene	0.75		
Tetramethylene-d ₈ Sulfone	98	α -methylene	2.92	β -methylene	2.16		

^aThis value may vary considerably, depending upon the solute.

^bBy definition.

^cTrademark.

Note: Several solvents are available in "100%" isotopic purity.