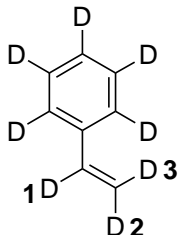


Sample Name: **Styrene-d8**

Sample#: **d8S**

Lot#: **P70159**

Structure:

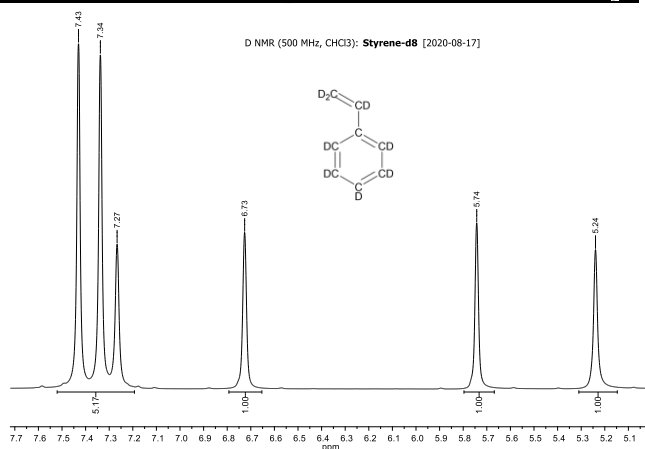


d8-Styrene

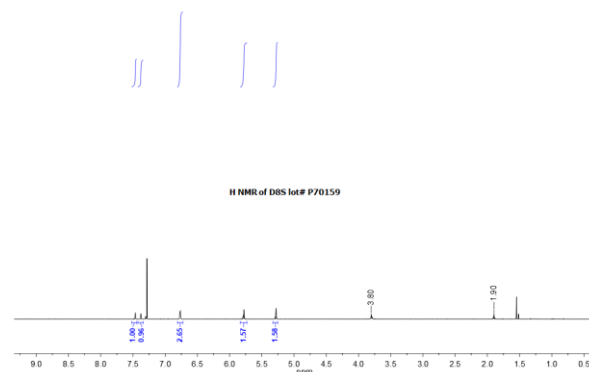
### Characterization:

CAS #	19361-62-7
Chemical Purity	+> 98%
D-atom purity (or isotopic purity)	+> 98%
Benzene ring	99+D %
mol wt	112.04 (by atom % calculation)
Stabilizer	tert. Butyl Catechol
Refractive index	n <sub>20/D</sub> 1.5445(lit.)
B.P.	145-146°C
M.P.	-31°C

### <sup>2</sup>H (deuterium) NMR spectrum (500 MHz, CHCl<sub>3</sub>):



### <sup>1</sup>H (proton) NMR spectrum (500 MHz, CDCl<sub>3</sub>):



H- NMR of the product: calculated from the CDCl<sub>3</sub> purity +98 D atom % " D% enrichment : over +98%

Styrene-d batch #	Integration v.s. Reference (CDCl <sub>3</sub> , D:99.8%)					
	aromatic protons	vinyl protons				
<b>Sd8-mix1</b>	3.0 : 3.0 : 1.5	2.8 : 3.0 : 3.0	<b>d0</b> = 1.67 %	<b>d5</b> = 1.44 %	<b>d6</b> = 0.22 %	<b>d8</b> = <b>96.67 %</b> (Complete deuteration)

### FTIR of the product:

