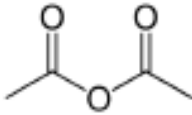
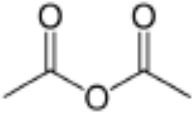
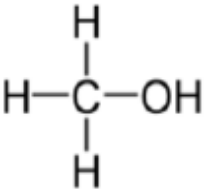
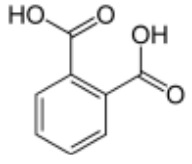


Compounds for derivatization formula, CAS #, purity, amount, type of packaging, price in US \$	Structure	$\delta^2\text{H}$ (or $\delta\text{D}$ ) (mean value in ‰ vs. VSMOW, $\pm 1\sigma$ ) (range) (# of measurements)	$\delta^{13}\text{C}$ (mean value in ‰ vs. VPDB, $\pm 1\sigma$ ) (range) (# of measurements)
<b>Acetic anhydride #1</b> , $\text{C}_4\text{H}_6\text{O}_3$ , CAS # 108-24-7, 99.5 %, ca. 1 mL sealed under argon in glass ampoule, US \$250.		<b>-133.2 <math>\pm</math> 2.1 ‰</b> from -131.5 to -136.0 ‰ n = 4	<b>-20.98 <math>\pm</math> 0.03 ‰</b> from -20.94 to -21.01 ‰ n = 4
<b>Acetic anhydride #2</b> , $\text{C}_4\text{H}_6\text{O}_3$ , CAS # 108-24-7, 99.5 %, ca. 1 mL sealed under argon in glass ampoule, US \$250.		<b>-200.5 <math>\pm</math> 1.5 ‰</b> from -198.5 to -202.5 ‰ n = 10	<b>-38.65 <math>\pm</math> 0.01 ‰</b> from -38.64 to -38.65 ‰ n = 5
<b>Methanol</b> , $\text{CH}_3\text{OH}$ , 99.8 %, anhydrous, CAS # 67-56-1, the $\delta^2\text{H}$ values characterize: (1) bulk hydrogen; (2) methyl hydrogen (calculated after subtracting the OH-hydrogen that was liberated in reactions between MeOH and Na metal). $\delta^{13}\text{C}$ was determined in bulk methanol. 5 mL sealed in glass ampoule, US \$250.		<b>bulk methanol:</b> <b>-112.6 <math>\pm</math> 0.8 ‰</b> from -111.8 to -113.5 ‰ n = 3 <b>methyl hydrogen:</b> <b>-141 <math>\pm</math> 3 ‰</b> from -138 to -143 ‰ n = 3	<b>-46.77 <math>\pm</math> 0.04 ‰</b> from -46.74 to -46.82 ‰ n = 3
<b>Phthalic acid #2</b> , $\text{C}_8\text{H}_6\text{O}_4$ , CAS # 88-99-3, $\delta^2\text{H}$ measured in Na-phthalate to exclude carboxyl hydrogen. $\delta^{13}\text{C}$ measured in free acid. 3 g in glass vial, US \$250		<b>-81.9 <math>\pm</math> 1.2 ‰</b> from -81.8 to -83.0 ‰ n = 4	<b>-29.98 <math>\pm</math> 0.01 ‰</b> from -29.96 to -29.99 ‰ n = 3