





























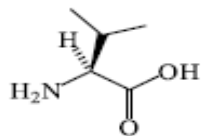
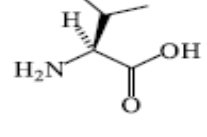
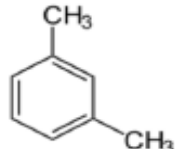










Version 27 March 2019 <b>Alphabetic listing of compounds</b> formula, CAS #, purity, amount, type of packaging, price in US \$	<b>Structure</b>	$\delta^2\text{H}$ (or $\delta\text{D}$ ) (mean value in ‰ vs. VSMOW, $\pm 1\sigma$ ) (range) (# of measurements)	$\delta^{13}\text{C}$ (mean value in ‰ vs. VPDB, $\pm$ $1\sigma$ ) (range) (# of measurements)	$\delta^{15}\text{N}$ (mean value in ‰ vs. AIR, $\pm 1\sigma$ ) (range) (# of measurements)	$\delta^{18}\text{O}$ (mean value in ‰ vs. VSMOW, $\pm 1\sigma$ ) (range) (# of measurements)	n-alkane aromatic ester for EA for GC gas liquid volatile halogen for deri- vation
<b>L-Valine #2, USGS74</b> , $\text{C}_5\text{H}_{11}\text{NO}_2$ , CAS # 516-06-3, 99 %, 100 mg in glass vial, freeze-dried, US \$250		not determined (contains exchangeable hydrogen)	$-9.30 \pm 0.04$ ‰ n = 94 <i>(Anal. Chem., 2016, 88, 4294.</i> <a href="http://dx.doi.org/10.1021/acs.analchem.5b04392">http://dx.doi.org/10.1021/acs.analchem.5b04392</a> )	$+30.19 \pm 0.07$ ‰ n = 68 <i>(Anal. Chem., 2016, 88, 4294.</i> <a href="http://dx.doi.org/10.1021/acs.analchem.5b04392">http://dx.doi.org/10.1021/acs.analchem.5b04392</a> )	not determined	
<b>L-Valine #3, USGS75</b> , $\text{C}_5\text{H}_{11}\text{NO}_2$ , CAS # 516-06-3, 99 %, 100 mg in glass vial, freeze-dried, US \$250		not determined (contains exchangeable hydrogen)	$+0.49 \pm 0.07$ ‰ n = 23 <i>(Anal. Chem., 2016, 88, 4294.</i> <a href="http://dx.doi.org/10.1021/acs.analchem.5b04392">http://dx.doi.org/10.1021/acs.analchem.5b04392</a> )	$+61.53 \pm 0.14$ ‰ n = 29 <i>(Anal. Chem., 2016, 88, 4294.</i> <a href="http://dx.doi.org/10.1021/acs.analchem.5b04392">http://dx.doi.org/10.1021/acs.analchem.5b04392</a> )	not determined	
<b>m-Xylene #1</b> , $\text{C}_8\text{H}_{10}$ , CAS # 108-38-3, $\geq 99$ %, 1 mL sealed under argon in glass ampoule, US \$250		$-58.6 \pm 1.3$ ‰ from -57.1 to -60.5 ‰ n = 5	$-27.27 \pm 0.01$ ‰ from -27.26 to -27.28 ‰ n = 4	not applicable	not applicable	