


Note: Most compounds are available individually. Please scroll down to see the components in *n*-alkane mixtures marked in the 3 rightmost columns.

Carbon number	Version 11 November 2025 Individual <i>n</i> -alkanes formula, CAS #, purity, amount, type of packaging, price in US \$	Structure	$\delta^2\text{H}$ (or δD) (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)	Composition of <i>n</i> -alkane mixture A8 C16-C30 (mg in 0.5 mL hexane; US \$250)	Composition of <i>n</i> -alkane mixture B5 C16-C30 (mg in 0.5 mL hexane; US \$250)	Composition of <i>n</i> -alkane mixture C4 C17-C25 (mg in 0.5 mL hexane; US \$250)
					see chromatogram	see chromatogram	see chromatogram
1	Methane #1 , CH ₄ , CAS # 74-82-8, ca. 10 cm ³ at atmospheric pressure in sealed glass tube (outer diameter 9 mm), US \$250	CH ₄	-160.8 \pm 2.1 ‰ from -158.8 to -164.2 ‰ n = 9	-38.25 \pm 0.03 ‰ from -38.23 to -38.30 ‰ n = 6			
1	Methane #2 , CH ₄ , CAS # 74-82-8, ca. 10 cm ³ at atmospheric pressure in sealed glass tube (outer diameter 9 mm), US \$250	CH ₄	-41.3 \pm 1.3 ‰ from -39.7 to -42.6 ‰ n = 4	-37.60 \pm 0.03 ‰ from -37.57 to -37.62 ‰ n = 3			
1	Methane #3 , CH ₄ , CAS # 74-82-8, ca. 10 cm ³ at atmospheric pressure in sealed glass tube (outer diameter 9 mm), US \$250	CH ₄	+2.2 \pm 1.2 ‰ from +0.4 to +3.7 ‰ n = 6	+19.86 \pm 0.05 ‰ from +19.81 to +19.94 ‰ n = 5			
1	Methane #5 , CH ₄ , CAS # 74-82-8, ca. 10 cm ³ at atmospheric pressure in sealed glass tube (outer diameter 9 mm), US \$250	CH ₄	-69.8 \pm 2.5 ‰ from -66.0 to -73.6 ‰ n = 6	-22.44 \pm 0.03 ‰ from -22.40 to -22.48 ‰ n = 7			
1	Methane #6 , CH ₄ , CAS # 74-82-8, ca. 10 cm ³ at atmospheric pressure in sealed glass tube (outer diameter 9 mm), US \$250	CH ₄	-153.0 \pm 2.0 ‰ from -150.6 to -155.2 ‰ n = 5	-39.40 \pm 0.02 ‰ from -39.38 to -39.42 ‰ n = 6			
2	Ethane #2 , C ₂ H ₆ , $\geq 99\%$, CAS # 74-84-0, ≥ 5 milligrams sealed in glass tube (outer diameter 9 mm), US \$250		-31.6 \pm 1.1 ‰ from -30.2 to -32.6 ‰ n = 5	-25.50 \pm 0.01 ‰ from -25.48 to -25.51 ‰ n = 4			
2	Ethane #3 , C ₂ H ₆ , $\geq 99\%$, CAS # 74-84-0, ≥ 5 milligrams sealed in glass tube (outer diameter 9 mm), US \$250		+100.1 \pm 2.7 ‰ from +95.5 to +102.7 ‰ n = 5	-11.39 \pm 0.02 ‰ from -11.37 to -11.42 ‰ n = 5			
3	Propane #1 , C ₃ H ₈ , $\geq 99\%$, CAS # 74-98-6, ≥ 5 milligrams sealed in glass tube (outer diameter 9 mm), US \$250		-165.9 \pm 1.4 ‰ from -165.1 to -167.5 ‰ n = 3	-33.29 \pm 0.03 ‰ from -33.26 to -33.32 ‰ n = 3			
5	<i>n</i>-Pentane , C ₅ H ₁₂ , CAS # 109-66-0, 99+ %, 1 mL sealed under argon in glass ampoule, US \$250		-117.5 \pm 1.0 ‰ from -116.1 to -118.9 ‰ n = 6	-27.19 \pm 0.02 ‰ from -27.17 to -27.22 ‰ n = 4			
8	<i>n</i>-Octane , C ₈ H ₁₈ , CAS # 111-65-9, 99+ %, 1 mL sealed under argon in glass ampoule, US \$250		-77.6 \pm 0.7 ‰ from -76.5 to -78.4 ‰ n = 7	-31.75 \pm 0.01 ‰ from -31.74 to -31.77 ‰ n = 4			
12	Dodecane #1, C12 <i>n</i>-alkane #1 , C ₁₂ H ₂₆ , CAS # 112-40-3, only in older mixtures	CH ₃ (CH ₂) ₁₀ CH ₃	-62.5 \pm 2.2 ‰ from -60.2 to -64.7 ‰ n = 4	-31.99 \pm 0.04 ‰ from -31.94 to -32.04 ‰ n = 6			
12	Dodecane #2, C12 <i>n</i>-alkane #2 , C ₁₂ H ₂₆ , CAS # 112-40-3, 0.5 milliliter sealed under argon in glass ampoule, US \$250	CH ₃ (CH ₂) ₁₀ CH ₃	-84.5 \pm 0.4 ‰ from -84.2 to -85.1 ‰ n = 4	-32.00 \pm 0.03 ‰ from -31.95 to -32.03 ‰ n = 5			
14	Tetradecane, C14 <i>n</i>-alkane , C ₁₄ H ₃₀ , CAS # 629-59-4, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₂ CH ₃	-71.7 \pm 1.4 ‰ from -69.3 to -73.5 ‰ n = 6	-30.69 \pm 0.03 ‰ from -30.67 to -30.72 ‰ n = 3			
15	Pentadecane #1, C15 <i>n</i>-alkane #1 , C ₁₅ H ₃₂ , CAS # 629-62-9, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₃ CH ₃	-88.4 \pm 1.2 ‰ from -86.7 to -90.9 ‰ n = 10	-29.25 \pm 0.01 ‰ from -29.25 to -29.26 ‰ n = 3			
15	Pentadecane #2, C15 <i>n</i>-alkane #2 , C ₁₅ H ₃₂ , CAS # 629-62-9, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₃ CH ₃	-85.8 \pm 2.2 ‰ from -83.2 to -88.0 ‰ n = 7	-29.93 \pm 0.02 ‰ from -29.91 to -29.97 ‰ n = 5			
16	Hexadecane #2, C16 <i>n</i>-alkane #2 , C ₁₆ H ₃₄ , CAS # 544-76-3, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₄ CH ₃	-9.1 \pm 1.4 ‰ from -7.9 to -11.1 ‰ n = 7	-26.15 \pm 0.02 ‰ from -26.13 to -26.17 ‰ n = 5	0.700	0.140	
16	Hexadecane #3, USGS67, C16 <i>n</i>-alkane #3 , C ₁₆ H ₃₄ , $\geq 99\%$, CAS # 544-76-3, ≥ 50 μL in sealed glass capillary, US \$275	CH ₃ (CH ₂) ₁₄ CH ₃	-166.2 \pm 1.0 ‰ n = 163 (Anal. Chem., 2016, 88, 4294. http://dx.doi.org/10.1021/acs.analchem.5b04392)	-34.50 \pm 0.05 ‰ n = 99 (Anal. Chem., 2016, 88, 4294. http://dx.doi.org/10.1021/acs.analchem.5b04392)			
16	Hexadecane #B, USGS68, C16 <i>n</i>-alkane #B , C ₁₆ H ₃₄ , contains spikes of 1- ² H and 1,2- ¹³ C ₂ , $\geq 99\%$, CAS # 544-76-3, ≥ 50 μL in sealed glass capillary, US \$275	CH ₃ (CH ₂) ₁₄ CH ₃	-10.2 \pm 0.9 ‰ n = 147 (Anal. Chem., 2016, 88, 4294. http://dx.doi.org/10.1021/acs.analchem.5b04392)	-10.55 \pm 0.04 ‰ n = 91 (Anal. Chem., 2016, 88, 4294. http://dx.doi.org/10.1021/acs.analchem.5b04392)			
16	Hexadecane #C, USGS69, C16 <i>n</i>-alkane #C , C ₁₆ H ₃₄ , contains spikes of 1- ² H and 1,2- ¹³ C ₂ , $\geq 99\%$, CAS # 544-76-3, ≥ 50 μL in sealed glass capillary, US \$275	CH ₃ (CH ₂) ₁₄ CH ₃	+381.4 \pm 3.5 ‰ n = 132 (Anal. Chem., 2016, 88, 4294. http://dx.doi.org/10.1021/acs.analchem.5b04392)	-0.57 \pm 0.04 ‰ n = 86 (Anal. Chem., 2016, 88, 4294. http://dx.doi.org/10.1021/acs.analchem.5b04392)			
17	Heptadecane #2, C17 <i>n</i>-alkane #2 , C ₁₇ H ₃₆ , CAS # 629-78-7, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₅ CH ₃	-121.2 \pm 0.5 ‰ from -120.9 to -122.0 ‰ n = 5	-31.87 \pm 0.02 ‰ from -31.84 to -31.90 ‰ n = 8	0.700	0.280	0.702
18	Octadecane #1, C18 <i>n</i>-alkane #1 , C ₁₈ H ₃₈ , CAS # 593-45-3, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₆ CH ₃	-53.8 \pm 2.1 ‰ from -50.9 to -55.7 ‰ n = 4	-31.11 \pm 0.02 ‰ from -31.08 to -31.14 ‰ n = 8			
18	Octadecane #2, C18 <i>n</i>-alkane #2 , C ₁₈ H ₃₈ , CAS # 593-45-3, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₆ CH ₃	-52.0 \pm 1.1 ‰ from -50.6 to -53.5 ‰ n = 5	-32.70 \pm 0.01 ‰ from -32.69 to -32.72 ‰ n = 5			
19	Nonadecane #2, C19 <i>n</i>-alkane #2 , C ₁₉ H ₄₀ , CAS # 629-92-5, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₇ CH ₃	-56.3 \pm 1.0 ‰ from -55.0 to -57.5 ‰ n = 5	-31.99 \pm 0.01 ‰ from -31.98 to -32.02 ‰ n = 6	0.700	0.560	0.701

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					see chromatogram	see chromatogram	see chromatogram
20	Eicosane #1, icosane #1, C20 <i>n</i>-alkane , C ₂₀ H ₄₂ , CAS # 112-95-8, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₈ CH ₃	-52.6 \pm 0.8 ‰ from -51.6 to -53.7 ‰ n = 5	-32.35 \pm 0.04 ‰ from -32.31 to -32.39 ‰ n = 4			
20	Eicosane #2, icosane #2, C20 <i>n</i>-alkane , C ₂₀ H ₄₂ , CAS # 112-95-8, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₈ CH ₃	-89.7 \pm 1.7 ‰ from -87.3 to -91.2 ‰ n = 4	-33.97 \pm 0.02 ‰ from -33.93 to -33.98 ‰ n = 6			
20	Eicosane #3, icosane #3, C20 <i>n</i>-alkane , C ₂₀ H ₄₂ , CAS # 112-95-8, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₈ CH ₃	-176.6 \pm 1.6 ‰ from -174.5 to -179.3 ‰ n = 9	-40.91 \pm 0.02 ‰ from -40.89 to -40.94 ‰ n = 7		0.700	
20	Eicosane #4, icosane #4, C20 <i>n</i>-alkane , C ₂₀ H ₄₂ , CAS # 112-95-8, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₈ CH ₃	-49.6 \pm 2.1 ‰ from -47.2 to -52.3 ‰ n = 4	-31.88 \pm 0.02 ‰ from -31.85 to -31.90 ‰ n = 7	0.700		
20	Eicosane #5, icosane #5, C20 <i>n</i>-alkane , C ₂₀ H ₄₂ , CAS # 112-95-8, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₈ CH ₃	-185.0 \pm 2.3 ‰ from -181.9 to -187.3 ‰ n = 5	-40.90 \pm 0.01 ‰ from -40.896 to -40.904 ‰ n = 3			
21	Heneicosane #2, C21 <i>n</i>-alkane #2 , C ₂₁ H ₄₄ , CAS # 629-94-7, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₉ CH ₃	-181.6 \pm 0.6 ‰ from -180.7 to -182.3 ‰ n = 5	-28.83 \pm 0.02 ‰ from -28.81 to -28.85 ‰ n = 5	0.700	0.140	0.699
21	Heneicosane #3, C21 <i>n</i>-alkane #3 , C ₂₁ H ₄₄ , CAS # 629-94-7, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₁₉ CH ₃	-205.3 \pm 2.5 ‰ from -202.3 to -207.9 ‰ n = 6	-29.40 \pm 0.02 ‰ from -29.38 to -29.43 ‰ n = 5			
22	Docosane #1, C22 <i>n</i>-alkane #1 , C ₂₂ H ₄₆ , CAS # 629-97-0, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₀ CH ₃	-62.8 \pm 1.6 ‰ from -60.9 to -64.9 ‰ n = 6	-32.87 \pm 0.03 ‰ from -32.84 to -32.91 ‰ n = 5			
22	Docosane #2, C22 <i>n</i>-alkane #2 , C ₂₂ H ₄₆ , CAS # 629-97-0, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₀ CH ₃	-81.3 \pm 1.8 ‰ from -79.4 to -83.2 ‰ n = 5	-33.77 \pm 0.02 ‰ from -33.75 to -33.79 ‰ n = 4			
22	Docosane #3, C22 <i>n</i>-alkane #3 , C ₂₂ H ₄₆ , CAS # 629-97-0, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₀ CH ₃	-68.2 \pm 1.8 ‰ from -65.7 to -70.4 ‰ n = 5	-34.89 \pm 0.02 ‰ from -34.87 to -34.92 ‰ n = 6	0.700	0.280	
22	Docosane #4, C22 <i>n</i>-alkane #4 , C ₂₂ H ₄₆ , CAS # 629-97-0, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₀ CH ₃	-158.7 \pm 0.9 ‰ from -157.1 to -160.0 ‰ n = 6	-29.19 \pm 0.03 ‰ from -29.15 to -29.23 ‰ n = 5			
22	Docosane #M, C22 <i>n</i>-alkane #M , C ₂₂ H ₄₆ , CAS # 629-97-0, available only in mixture A7	CH ₃ (CH ₂) ₂₀ CH ₃	-74.8 \pm 1.8 ‰ from -72.6 to -76.8 ‰ n = 5	-34.33 \pm 0.02 ‰ from -34.31 to -34.36 ‰ n = 5			
23	Tricosane #2, C23 <i>n</i>-alkane #2 , C ₂₃ H ₄₈ , #1, CAS # 638-67-5, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₁ CH ₃	-67.2 \pm 1.1 ‰ from -65.6 to -68.6 ‰ n = 6	-33.37 \pm 0.03 ‰ from -33.33 to -33.40 ‰ n = 5	0.700	0.420	0.703
23	Tricosane #3, C23 <i>n</i>-alkane #3 , C ₂₃ H ₄₈ , #1, CAS # 638-67-5, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₁ CH ₃	-65.6 \pm 2.0 ‰ from -63.2 to -68.3 ‰ n = 6	-33.34 \pm 0.01 ‰ from -33.33 to -33.36 ‰ n = 6			
23	Tricosane #4, C23 <i>n</i>-alkane #4 , C ₂₃ H ₄₈ , #1, CAS # 638-67-5, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₁ CH ₃	-68.7 \pm 1.0 ‰ from -67.3 to -69.6 ‰ n = 6	-33.34 \pm 0.01 ‰ from -33.32 to -33.36 ‰ n = 5			
24	Tetracosane #1, C24 <i>n</i>-alkane #1 , C ₂₄ H ₅₀ , CAS # 646-31-1, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₂ CH ₃	-53.0 \pm 1.6 ‰ from -50.7 to -54.5 ‰ n = 4	-33.34 \pm 0.02 ‰ from -33.32 to -33.36 ‰ n = 6			
24	Tetracosane #2, C24 <i>n</i>-alkane #2 , C ₂₄ H ₅₀ , CAS # 646-31-1, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₂ CH ₃	-29.7 \pm 1.5 ‰ from -28.2 to -31.8 ‰ n = 6	-32.13 \pm 0.02 ‰ from -32.11 to -32.16 ‰ n = 6	0.700	0.560	
25	Pentacosane #3, C25 <i>n</i>-alkane #3 , C ₂₅ H ₅₂ , CAS # 629-99-2, available only as part of mixtures	CH ₃ (CH ₂) ₂₃ CH ₃	-254.1 \pm 1.5 ‰ from -252.0 to -256.1 ‰ n = 5	-28.48 \pm 0.02 ‰ from -28.45 to -28.51 ‰ n = 7			0.702
25	Pentacosane #4, C25 <i>n</i>-alkane #4 , C ₂₅ H ₅₂ , CAS # 629-99-2, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₃ CH ₃	-258.9 \pm 0.8 ‰ from -258.1 to -260.0 ‰ n = 5	-28.46 \pm 0.02 ‰ from -28.42 to -28.48 ‰ n = 7	0.700	0.700	
25	Pentacosane #5, C25 <i>n</i>-alkane #5 , C ₂₅ H ₅₂ , CAS # 629-99-2, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₃ CH ₃	-189.3 \pm 1.5 ‰ from -187.5 to -191.1 ‰ n = 5	-31.57 \pm 0.01 ‰ from -31.55 to -31.58 ‰ n = 5			
26	Hexacosane #2, C26 <i>n</i>-alkane #2 , C ₂₆ H ₅₄ , CAS # 630-01-3, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₄ CH ₃	-45.9 \pm 1.0 ‰ from -44.4 to -46.7 ‰ n = 5	-32.94 \pm 0.01 ‰ from -32.92 to -32.95 ‰ n = 8	0.700	0.140	
27	Heptacosane #1, C27 <i>n</i>-alkane #1 , C ₂₇ H ₅₆ , CAS # 593-49-7, available only in older mixtures	CH ₃ (CH ₂) ₂₅ CH ₃	-227.3 \pm 2.0 ‰ from -225. to -229.6 ‰ n = 3	-28.61 \pm 0.02 ‰ from -28.59 to -28.65 ‰ n = 6			
27	Heptacosane #2, C27 <i>n</i>-alkane #2 , C ₂₇ H ₅₆ , CAS # 593-49-7, available only in some <i>n</i> -alkane mixtures	CH ₃ (CH ₂) ₂₅ CH ₃	-178.2 \pm 2.5 ‰ from -173.8 to -181.5 ‰ n = 9	-29.56 \pm 0.01 ‰ from -29.55 to -29.57 ‰ n = 4			
27	Heptacosane #3, C27 <i>n</i>-alkane #3 , C ₂₇ H ₅₆ , CAS # 593-49-7, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₅ CH ₃	-172.8 \pm 1.6 ‰ from -170.6 to -175.1 ‰ n = 6	-30.49 \pm 0.01 ‰ from -30.47 to -30.50 ‰ n = 5			
27	Heptacosane #4, C27 <i>n</i>-alkane #4 , C ₂₇ H ₅₆ , CAS # 593-49-7, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₅ CH ₃	-205.2 \pm 1.6 ‰ from -203.5 to -207.6 ‰ n = 6	-31.11 \pm 0.01 ‰ from -31.11 to -31.12 ‰ n = 5	0.700	0.280	
28	Octacosane #2, C28 <i>n</i>-alkane #2 , C ₂₈ H ₅₈ , CAS # 630-02-4, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₆ CH ₃	-36.8 \pm 1.3 ‰ from -35.6 to -38.9 ‰ n = 5	-33.20 \pm 0.01 ‰ from -33.20 to -33.20 ‰ n = 5	0.700	0.420	
29	Nonacosane #1, C29 <i>n</i>-alkane #1 , C ₂₉ H ₆₀ , CAS # 630-03-5, available only in older <i>n</i> -alkane mixtures	CH ₃ (CH ₂) ₂₇ CH ₃	-179.3 \pm 2.7 ‰ from -177.0 to -183.0 ‰ n = 5	-31.08 \pm 0.02 ‰ from -31.06 to -31.10 ‰ n = 3			

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					see chromatogram	see chromatogram	see chromatogram
29	Nonacosane #3, C29 <i>n</i>-alkane #3 , C ₂₉ H ₆₀ , CAS # 630-03-5, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₇ CH ₃	-177.8 \pm 1.3 ‰ from -176.0 to -179.7 ‰ n = 10	-29.10 \pm 0.01 ‰ from -29.08 to -29.11 ‰ n = 5	0.700	0.560	
29	Nonacosane #4, C29 <i>n</i>-alkane #4 , C ₂₉ H ₆₀ , CAS # 630-03-5, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₇ CH ₃	-162.6 \pm 2.2 ‰ from -160.6 to -165.0 ‰ n = 4	-29.30 \pm 0.02 ‰ from -29.27 to -29.32 ‰ n = 5			
29	Nonacosane #5, C29 <i>n</i>-alkane #5 , C ₂₉ H ₆₀ , CAS # 630-03-5, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₇ CH ₃	-85.4 \pm 1.4 ‰ from -82.9 to -86.8 ‰ n = 6	-31.83 \pm 0.02 ‰ from -31.80 to -31.85 ‰ n = 5			
30	Triacontane #1, C30 <i>n</i>-alkane #1 , C ₃₀ H ₆₂ , CAS # 638-68-6, available only in older <i>n</i> -alkane mixtures	CH ₃ (CH ₂) ₂₈ CH ₃	-46.3 \pm 2.1 ‰ from -42.1 to -49.4 ‰ n = 8	-33.15 \pm 0.02 ‰ from -33.13 to -33.18 ‰ n = 9	0.700	0.700	
30	Triacontane #2, C30 <i>n</i>-alkane #2 , C ₃₀ H ₆₂ , CAS # 638-68-6, available only as a component of mixtures	CH ₃ (CH ₂) ₂₈ CH ₃	-213.4 \pm 1.2 ‰ from -211.8 to -215.0 ‰ n = 8	-29.86 \pm 0.01 ‰ from -29.86 to -29.87 ‰ n = 4			
30	Triacontane #3, C30 <i>n</i>-alkane #3 , C ₃₀ H ₆₂ , CAS # 638-68-6, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₈ CH ₃	-213.6 \pm 2.4 ‰ from -210.5 to -216.1 ‰ n = 6	-29.84 \pm 0.01 ‰ from -29.82 to -29.85 ‰ n = 5			
30	Triacontane #4, C30 <i>n</i>-alkane #4 , C ₃₀ H ₆₂ , CAS # 638-68-6, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₈ CH ₃	-41.5 \pm 0.7 ‰ from -40.9 to -42.9 ‰ n = 6	-33.14 \pm 0.02 ‰ from -33.12 to -33.16 ‰ n = 6			
31	Hentriacontane, C31 <i>n</i>-alkane , C ₃₁ H ₆₄ , CAS # 630-04-6, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₂₉ CH ₃	-271.9 \pm 2.0 ‰ from -268.7 to -274.1 ‰ n = 9	-29.43 \pm 0.01 ‰ from -29.41 to -29.44 ‰ n = 5			
32	Dotriacontane, C32 <i>n</i>-alkane , C ₃₂ H ₆₆ , CAS # 544-85-4, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₀ CH ₃	-212.4 \pm 1.0 ‰ from -211.5 to -213.3 ‰ n = 4	-29.47 \pm 0.02 ‰ from -29.45 to -29.50 ‰ n = 6			
33	Triatriacontane #1, C33 <i>n</i>-alkane #1 , C ₃₃ H ₆₈ , CAS # 630-05-7, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₁ CH ₃	-207.0 \pm 1.7 ‰ from -204.7 to -208.6 ‰ n = 5	-28.36 \pm 0.01 ‰ from -28.36 to -28.37 ‰ n = 5			
34	Tetatriacontane, C34 <i>n</i>-alkane , C ₃₄ H ₇₀ , CAS # 14167-59-0, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₂ CH ₃	-231.8 \pm 1.4 ‰ from -230.0 to -233.4 ‰ n = 4	-29.54 \pm 0.02 ‰ from -29.53 to -29.56 ‰ n = 5			
35	Pentatriacontane #1, C35 <i>n</i>-alkane #1 , C ₃₅ H ₇₂ , CAS # 630-07-9, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₃ CH ₃	-194.8 \pm 0.9 ‰ from -193.3 to -195.7 ‰ n = 5	-29.84 \pm 0.01 ‰ from -29.84 to -29.85 ‰ n = 3			
35	Pentatriacontane #2, C35 <i>n</i>-alkane #2 , C ₃₅ H ₇₂ , CAS # 630-07-9, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₃ CH ₃	-179.3 \pm 1.9 ‰ from -177.1 to -181.7 ‰ n = 4	-30.48 \pm 0.02 ‰ from -30.46 to -30.51 ‰ n = 5			
36	Hexatriacontane #2, C36 <i>n</i>-alkane #2 , C ₃₆ H ₇₄ , CAS # 630-06-8, 100 mg in crimp-sealed glass vial, US \$250	CH ₃ (CH ₂) ₃₄ CH ₃	-259.2 \pm 1.3 ‰ from -257.5 to -261.0 ‰ n = 7	-29.95 \pm 0.02 ‰ from -29.92 to -29.97 ‰ n = 8			
37	Heptatriacontane, C37 <i>n</i>-alkane , C ₃₇ H ₇₆ , CAS # 7194-84-5, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₅ CH ₃	-180.1 \pm 1.8 ‰ from -177.4 to -181.5 ‰ n = 4	-30.24 \pm 0.03 ‰ from -30.21 to -30.27 ‰ n = 4			
38	Octatriacontane, C38 <i>n</i>-alkane , C ₃₈ H ₇₈ , CAS # 7194-85-6, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₆ CH ₃	-102.6 \pm 1.3 ‰ from -101.7 to -104.0 ‰ n = 3	-31.49 \pm 0.01 ‰ from -31.47 to -31.50 ‰ n = 5			
39	Nonatriacontane, C39 <i>n</i>-alkane , C ₃₉ H ₈₀ , CAS # 7194-86-7, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₇ CH ₃	-218.6 \pm 2.3 ‰ from -215.2 to -221.7 ‰ n = 10	-28.68 \pm 0.01 ‰ from -28.67 to -28.69 ‰ n = 4			
40	Tetracontane, C40 <i>n</i>-alkane , C ₄₀ H ₈₂ , CAS # 4181-95-7, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₈ CH ₃	-106.7 \pm 0.3 ‰ from -106.4 to -107.0 ‰ n = 3	-32.20 \pm 0.04 ‰ from -32.16 to -32.25 ‰ n = 4			
41	Hentetracontane #2, C41 <i>n</i>-alkane #2 , C ₄₁ H ₈₄ , CAS # 7194-87-8, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₃₉ CH ₃	-196.5 \pm 2.0 ‰ from -194.0 to -199.4 ‰ n = 5	-29.23 \pm 0.02 ‰ from -29.21 to -29.25 ‰ n = 5			
44	Tetratetracontane #1, C44 <i>n</i>-alkane #1 , C ₄₄ H ₉₀ , CAS # 7098-22-8, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₄₂ CH ₃	-199.9 \pm 2.0 ‰ from -197.7 to -201.6 ‰ n = 3	-29.12 \pm 0.02 ‰ from -29.10 to -29.15 ‰ n = 5			
44	Tetratetracontane #2, C44 <i>n</i>-alkane #2 , C ₄₄ H ₉₀ , CAS # 7098-22-8, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₄₂ CH ₃	-199.8 \pm 1.3 ‰ from -198.6 to -201.5 ‰ n = 6	-29.07 \pm 0.02 ‰ from -29.05 to -29.10 ‰ n = 4			
50	Pentacontane, C50 <i>n</i>-alkane , C ₅₀ H ₁₀₂ , CAS # 6596-40-3, ≥ 5 mg in sealed glass capillary, US \$250	CH ₃ (CH ₂) ₄₈ CH ₃	-191.3 \pm 1.0 ‰ from -190.6 to -192.0 ‰ n = 2	-27.79 \pm 0.03 ‰ from -27.77 to -27.83 ‰ n = 6			
n	Polyethylene powder, USGS77 , low density, 1000 μm , CAS # 9002-88-4, 1 g in glass vial, US \$275	(CH ₂ CH ₂) _n	-75.9 \pm 0.6 ‰ n = 199 (<i>Anal. Chem.</i> , 2016, 88, 4294, http://dx.doi.org/10.1021/acs.analchem.5b04392)	-30.71 \pm 0.04 ‰ n = 81 (<i>Anal. Chem.</i> , 2016, 88, 4294, http://dx.doi.org/10.1021/acs.analchem.5b04392)			
n	Polyethylene line NDF-PE77 (extruded from powder USGS77; isotopically indistinguishable from powder), low density, CAS # 9002-88-4, inquire about availability or contact Tamim Dawish (ndf-enquiries@ansto.gov.au)	(CH ₂ CH ₂) _n	indistinguishable from USGS77 (see above) (<i>Anal. Chem.</i> , 2016, 88, 4294, http://dx.doi.org/10.1021/acs.analchem.5b04392)	indistinguishable from USGS77 (see above) (<i>Anal. Chem.</i> , 2016, 88, 4294, http://dx.doi.org/10.1021/acs.analchem.5b04392)			