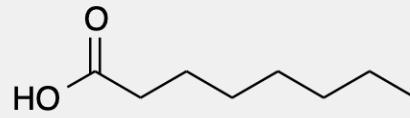
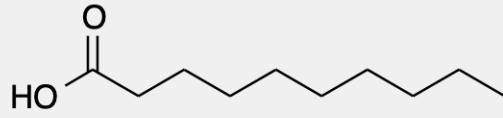


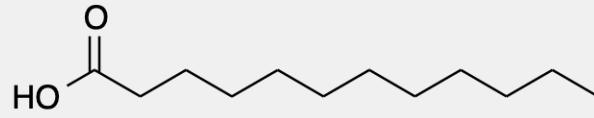
caproic



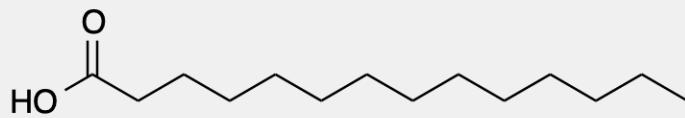
caprylic



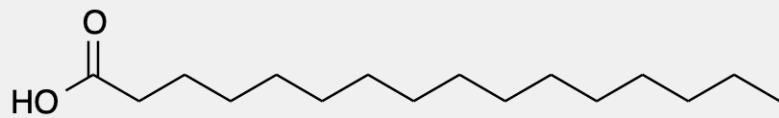
capric



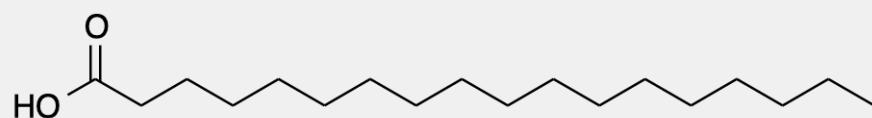
lauric



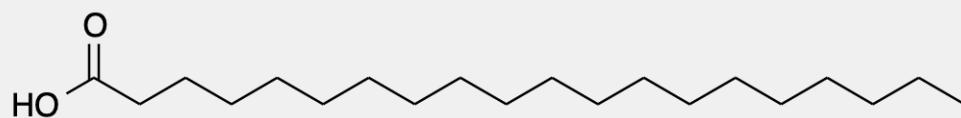
myristic



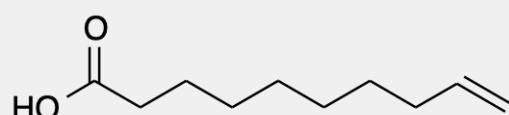
palmitic



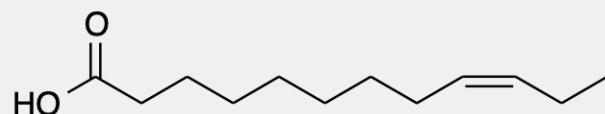
stearic



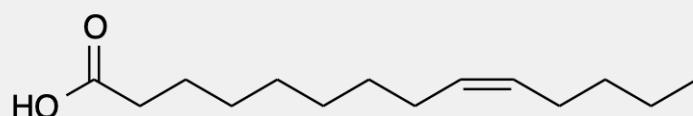
arachidic



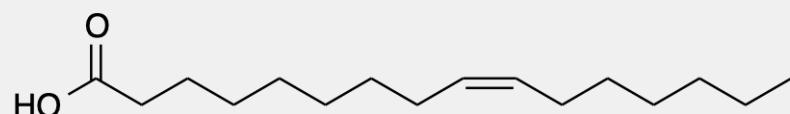
caproleic



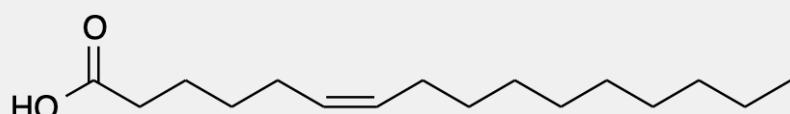
lauroleic



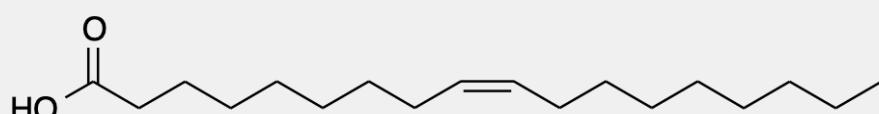
myristoleic



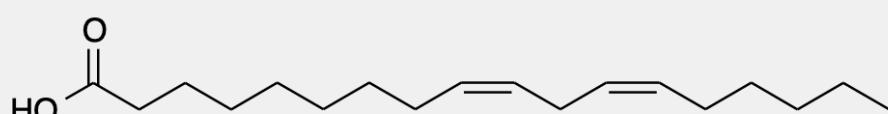
palmitoleic



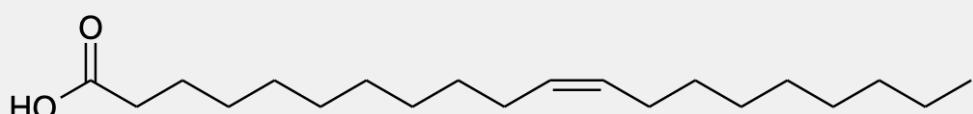
sapienic



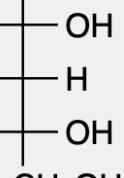
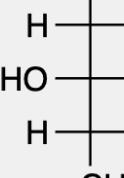
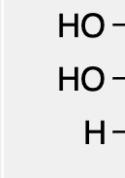
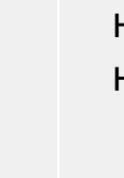
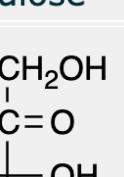
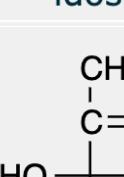
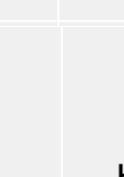
oleic



linoleic

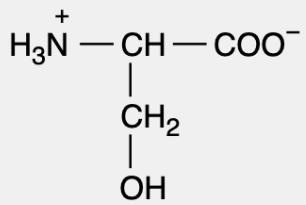


eicosenoic

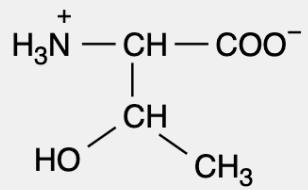
			
gulose	idose	galactose	talose
			
psicose	fructose	sorbose	tagatose

nonpolar		
$\text{H}_3\text{N}^+ - \text{CH}_2 - \text{COO}^-$ glycine (Gly, G)	$\text{H}_3\text{N}^+ - \begin{array}{c} \text{CH} \\ \\ \text{CH}_3 \end{array} - \text{COO}^-$ alanine (Ala, A)	$\text{H}_3\text{N}^+ - \begin{array}{c} \text{CH} \\ \\ \text{CH} \\ \\ \text{CH}_3 \end{array} - \text{COO}^-$ valine (Val, V)
$\begin{array}{c} \text{H}_3\text{N}^+ - \text{CH} \\ \\ \text{CH}_2 \\ \\ \text{CH} \\ \\ \text{CH}_3 \end{array} - \text{COO}^-$ leucine (Leu, L)	$\begin{array}{c} \text{H}_3\text{N}^+ - \text{CH} \\ \\ \text{CH} \\ \\ \text{CH}_3 \end{array} - \begin{array}{c} \text{CH}_2 \\ \\ \text{CH}_3 \end{array} - \text{COO}^-$ isoleucine (Ile, I)	$\begin{array}{c} \text{H}_3\text{N}^+ - \text{CH} \\ \\ \text{CH}_2 \\ \\ \text{C}_6\text{H}_5 \end{array} - \text{COO}^-$ phenylalanine (Phe, F)
$\begin{array}{c} \text{H}_3\text{N}^+ - \text{CH} \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{S} \\ \\ \text{CH}_3 \end{array} - \text{COO}^-$ methionine (Met, M)	$\begin{array}{c} \text{H}_2\text{N}^+ - \text{CH} \\ \\ \text{C}_3\text{H}_5 \end{array} - \text{COO}^-$ proline (Pro, P)	$\begin{array}{c} \text{H}_3\text{N}^+ - \text{CH} \\ \\ \text{CH}_2 \\ \\ \text{C}_5\text{H}_4\text{N} \end{array} - \text{COO}^-$ tryptophan (Trp, W)
acidic		
$\begin{array}{c} \text{H}_3\text{N}^+ - \text{CH} \\ \\ \text{CH}_2 \\ \\ \text{C}(=\text{O})-\text{O}^- \end{array} - \text{COO}^-$ aspartate (Asp, D)	$\begin{array}{c} \text{H}_3\text{N}^+ - \text{CH} \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{C}(=\text{O})-\text{O}^- \end{array} - \text{COO}^-$ glutamate (Glu, E)	

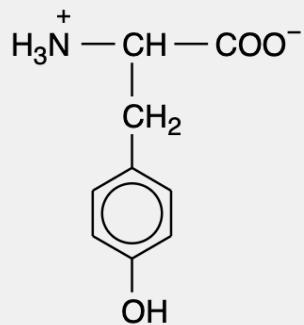
polar neutral



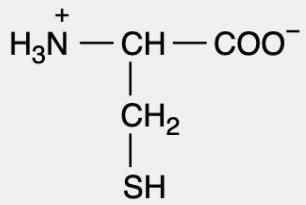
serine (Ser, S)



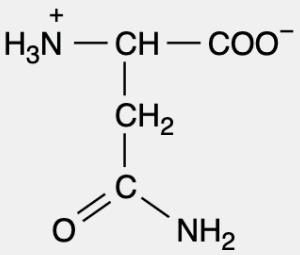
threonine (Thr, T)



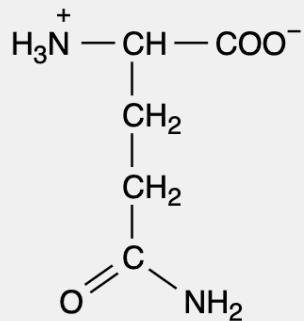
tyrosine (Tyr, Y)



cysteine (Cys, C)

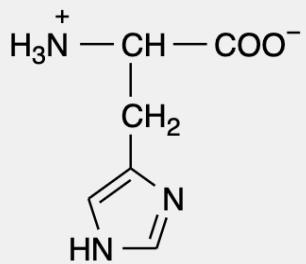


asparagine (Asn, N)

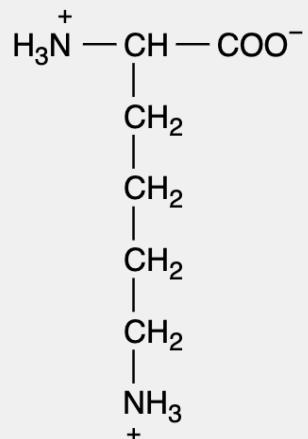


glutamine (Gln, Q)

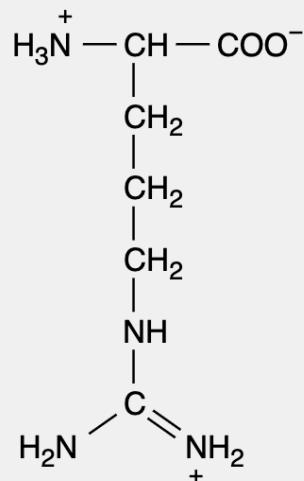
basic



histidine (His, H)



lysine (Lys, K)



arginine (Arg, R)