

**Average Mass Differences of the 20 Genetically Coded Amino Acids**

		<b>G</b>	<b>A</b>	<b>S</b>	<b>P</b>	<b>V</b>	<b>T</b>	<b>C</b>	<b>I</b>	<b>L</b>	<b>N</b>	<b>D</b>	<b>Q</b>	<b>K</b>	<b>E</b>	<b>M</b>	<b>H</b>	<b>F</b>	<b>R</b>	<b>Y</b>	<b>W</b>
		<b>57.05</b>	<b>71.08</b>	<b>87.08</b>	<b>97.12</b>	<b>99.13</b>	<b>101.10</b>	<b>103.14</b>	<b>113.16</b>	<b>113.16</b>	<b>114.10</b>	<b>115.09</b>	<b>128.13</b>	<b>128.17</b>	<b>129.12</b>	<b>131.19</b>	<b>137.14</b>	<b>147.18</b>	<b>156.19</b>	<b>163.18</b>	<b>186.21</b>
<b>G</b>	<b>57.05</b>	0.00	14.03	30.03	40.07	42.08	44.05	46.09	56.11	56.11	57.05	58.04	71.08	71.12	72.07	74.14	80.09	90.13	99.14	106.13	129.16
<b>A</b>	<b>71.08</b>	-14.03	0.00	16.00	26.04	28.05	30.02	32.06	42.08	42.08	43.02	44.01	57.05	57.09	58.04	60.11	66.06	76.10	85.11	92.10	115.13
<b>S</b>	<b>87.08</b>	-30.03	-16.00	0.00	10.04	12.05	14.02	16.06	26.08	26.08	27.02	28.01	41.05	41.09	42.04	44.11	50.06	60.10	69.11	76.10	99.13
<b>P</b>	<b>97.12</b>	-40.07	-26.04	-10.04	0.00	2.01	3.98	6.02	16.04	16.04	16.98	17.97	31.01	31.05	32.00	34.07	40.02	50.06	59.07	66.06	89.09
<b>V</b>	<b>99.13</b>	-42.08	-28.05	-12.05	-2.01	0.00	1.97	4.01	14.03	14.03	14.97	15.96	29.00	29.04	29.99	32.06	38.01	48.05	57.06	64.05	87.08
<b>T</b>	<b>101.10</b>	-44.05	-30.02	-14.02	-3.98	-1.97	0.00	2.04	12.06	12.06	13.00	13.99	27.03	27.07	28.02	30.09	36.04	46.08	55.09	62.08	85.11
<b>C</b>	<b>103.14</b>	-46.09	-32.06	-16.06	-6.02	-4.01	-2.04	0.00	10.02	10.02	10.96	11.95	24.99	25.03	25.98	28.05	34.00	44.04	53.05	60.04	83.07
<b>I</b>	<b>113.16</b>	-56.11	-42.08	-26.08	-16.04	-14.03	-12.06	-10.02	0.00	0.00	0.94	1.93	14.97	15.01	15.96	18.03	23.98	34.02	43.03	50.02	73.05
<b>L</b>	<b>113.16</b>	-56.11	-42.08	-26.08	-16.04	-14.03	-12.06	-10.02	0.00	0.00	0.94	1.93	14.97	15.01	15.96	18.03	23.98	34.02	43.03	50.02	73.05
<b>N</b>	<b>114.10</b>	-57.05	-43.02	-27.02	-16.98	-14.97	-13.00	-10.96	-0.94	-0.94	0.00	0.99	14.03	14.07	15.02	17.09	23.04	33.08	42.09	49.08	72.11
<b>D</b>	<b>115.09</b>	-58.04	-44.01	-28.01	-17.97	-15.96	-13.99	-11.95	-1.93	-1.93	-0.99	0.00	13.04	13.08	14.03	16.10	22.05	32.09	41.10	48.09	71.12
<b>Q</b>	<b>128.13</b>	-71.08	-57.05	-41.05	-31.01	-29.00	-27.03	-24.99	-14.97	-14.97	-14.03	-13.04	0.00	0.04	0.99	3.06	9.01	19.05	28.06	35.05	58.08
<b>K</b>	<b>128.17</b>	-71.12	-57.09	-41.09	-31.05	-29.04	-27.07	-25.03	-15.01	-15.01	-14.07	-13.08	-0.04	0.00	0.95	3.02	8.97	19.01	28.02	35.01	58.04
<b>E</b>	<b>129.12</b>	-72.07	-58.04	-42.04	-32.00	-29.99	-28.02	-25.98	-15.96	-15.96	-15.02	-14.03	-0.99	-0.95	0.00	2.07	8.02	18.06	27.07	34.06	57.09
<b>M</b>	<b>131.19</b>	-74.14	-60.11	-44.11	-34.07	-32.06	-30.09	28.05	-18.03	-18.03	-17.09	-16.10	-3.06	-3.02	-2.07	0.00	5.95	15.99	25.00	31.99	55.02
<b>H</b>	<b>137.14</b>	-80.09	-66.06	-50.06	-40.02	-38.01	-36.04	-34.00	-23.98	-23.98	23.04	-22.05	-9.01	-8.97	-8.02	-5.95	0.00	10.04	19.05	26.04	49.07
<b>F</b>	<b>147.18</b>	-90.13	-76.10	-60.10	-50.06	-48.05	-46.08	-44.04	-34.02	-34.02	-33.08	-32.09	-19.05	-19.01	-18.06	-15.99	-10.04	0.00	9.01	16.00	39.03
<b>R</b>	<b>156.19</b>	-99.14	-85.11	-69.11	-59.07	-57.06	-55.09	-53.05	-43.03	-43.03	-42.09	-41.10	-28.06	-28.02	-27.07	-25.00	-19.05	-9.01	0.00	6.99	30.02
<b>Y</b>	<b>163.18</b>	-106.13	-92.10	-76.10	-66.06	-64.05	-62.08	-60.04	-50.02	-50.02	-49.08	-48.09	-35.05	-35.01	-34.06	-31.99	-26.04	-16.00	-6.99	0.00	23.03
<b>W</b>	<b>186.21</b>	-129.16	-115.13	-99.13	-89.09	-87.08	-85.11	-83.07	-73.05	-73.05	-72.11	-71.12	-58.08	-58.04	-57.09	-55.02	-49.07	-39.03	-30.02	-23.03	0.00