

## Chart of Saponification Values for Making Soap

Saponification Values for Making Soap with Lye (Sodium Hydroxide) or with Caustic Potash (Potassium Hydroxide)

| Fat or Oil                            | Lye (Sodium Hydroxide), NaOH | Caustic Potash (Potassium Hydroxide), KOH |
|---------------------------------------|------------------------------|---|
| Almond Oil ♥                          | 0.1367                       | 0.1925                                    |
| Aloe Vera Butter ♥                    | 0.1788                       | 0.2518                                    |
| Aloe Vera Oil ♥                       | 0.1421                       | 0.2001                                    |
| Apricot Kernel Oil ♥                  | 0.1378                       | 0.1941                                    |
| Avocado Butter ♥                      | 0.1339                       | 0.1886                                    |
| Avocado Oil ♥                         | 0.1337                       | 0.1883                                    |
| Babassu Nut Oil ♥                     | 0.1749                       | 0.2463                                    |
| Beeswax <b>Animal!</b>                | 0.0689                       | 0.0970                                    |
| Borage Oil ♥                          | 0.1339                       | 0.1886                                    |
| Candelilla Wax ♥                      | 0.0322                       | 0.0454                                    |
| Canola Oil ♥                          | 0.1328                       | 0.1870                                    |
| Canola Oil, High Oleic Acid ♥         | 0.1330                       | 0.1873                                    |
| Castor Bean Oil ♥                     | 0.1286                       | 0.1811                                    |
| Cherry Kernel Oil ♥                   | 0.1389                       | 0.1956                                    |
| Chicken Fat <b>Animal!</b>            | 0.1356                       | 0.1910                                    |
| Cocoa Butter ♥                        | 0.1378                       | 0.1941                                    |
| Coconut Oil, Refined 76° ♥            | 0.1910                       | 0.2690                                    |
| Coconut Oil, Hydrogenated 92° ♥       | 0.1910                       | 0.2690                                    |
| Coconut Oil, Fractionated/Saturated ♥ | 0.2321                       | 0.3269                                    |
| Copha® Vegetable Shortening ♥         | 0.1910                       | 0.2690                                    |
| Corn Oil ♥                            | 0.1368                       | 0.1927                                    |
| Cottonseed Oil ♥                      | 0.1387                       | 0.1954                                    |
| Crisco® Vegetable Shortening ♥        | 0.1369                       | 0.1928                                    |

♥ Indicates a fat not from an animal source.

**Animal!** Indicates a fat from an animal source.

These saponification values indicate the amount of lye (sodium hydroxide) or the amount of caustic potash (potassium hydroxide) needed to completely saponify the listed fat using consistent units of weight.

| Fat or Oil                       | Lye (Sodium Hydroxide), NaOH | Caustic Potash (Potassium Hydroxide), KOH |
|----------------------------------|------------------------------|---|
| Emu Oil <b>Animal!</b>           | 0.1377                       | 0.1939                                    |
| Evening Primrose Oil ♥           | 0.1362                       | 0.1918                                    |
| Flaxseed Oil ♥                   | 0.1358                       | 0.1913                                    |
| Goat Fat <b>Animal!</b>          | 0.1382                       | 0.1946                                    |
| Goose Fat <b>Animal!</b>         | 0.1349                       | 0.1900                                    |
| Grapeseed Oil ♥                  | 0.1321                       | 0.1861                                    |
| Hazelnut Oil ♥                   | 0.1369                       | 0.1928                                    |
| Hempseed Oil ♥                   | 0.1359                       | 0.1914                                    |
| Joboba Seed Oil ♥                | 0.0695                       | 0.0979                                    |
| Joboba Seed Liquid Wax ♥         | 0.0695                       | 0.0979                                    |
| Karite Butter ♥                  | 0.1296                       | 0.1825                                    |
| Kremelta® Vegetable Shortening ♥ | 0.1910                       | 0.2690                                    |
| Kukui Nut Oil ♥                  | 0.1351                       | 0.1903                                    |
| Lanolin <b>Animal!</b>           | 0.0748                       | 0.1054                                    |
| Lard <b>Animal!</b>              | 0.1399                       | 0.1970                                    |
| Linseed Oil ♥                    | 0.1358                       | 0.1913                                    |
| Macadamia Nut Oil ♥              | 0.1391                       | 0.1959                                    |
| Milk Fat <b>Animal!</b>          | 0.1599                       | 0.2252                                    |
| Mink Oil <b>Animal!</b>          | 0.1403                       | 0.1976                                    |
| Monoï de Tahiti Oil ♥            | 0.1796                       | 0.2530                                    |
| Neem Tree Oil ♥                  | 0.1372                       | 0.1932                                    |
| Olive Oil ♥                      | 0.1353                       | 0.1906                                    |
| Ostrich Oil <b>Animal!</b>       | 0.1385                       | 0.1951                                    |
| Palm Kernel Oil ♥                | 0.1777                       | 0.2503                                    |
| Palm Oil ♥                       | 0.1420                       | 0.2000                                    |
| Peach Kernel Oil ♥               | 0.1361                       | 0.1917                                    |
| Peanut Oil ♥                     | 0.1367                       | 0.1925                                    |
| Pumpkin Seed Oil ♥               | 0.1389                       | 0.1956                                    |
| Rapeseed Oil ♥                   | 0.1328                       | 0.1870                                    |
| Rice Bran Oil ♥                  | 0.1284                       | 0.1808                                    |

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| Fat or Oil                                 | Lye (Sodium Hydroxide), NaOH | Caustic Potash (Potassium Hydroxide), KOH |
|--|------------------------------|---|
| Safflower Oil, High Linoleic Acid ♥        | 0.1374                       | 0.1935                                    |
| Safflower Oil, High Oleic Acid ♥           | 0.1369                       | 0.1928                                    |
| Sesame Seed Oil ♥                          | 0.1336                       | 0.1882                                    |
| Shea Butter ♥                              | 0.1296                       | 0.1825                                    |
| Soybean Oil ♥                              | 0.1359                       | 0.1914                                    |
| Soybean Oil, 27.5% Hydrogenated ♥          | 0.1361                       | 0.1917                                    |
| Stearic Acid, Animal-Source <b>Animal!</b> | 0.1413                       | 0.1990                                    |
| Stearic Acid, Vegetable-Source ♥           | 0.1411                       | 0.1987                                    |
| Sunflower Seed Oil ♥                       | 0.1358                       | 0.1913                                    |
| Sunflower Seed Oil, High Oleic Acid ♥      | 0.1351                       | 0.1903                                    |
| Tallow, Beef <b>Animal!</b>                | 0.1419                       | 0.1999                                    |
| Tallow, Deer <b>Animal!</b>                | 0.1382                       | 0.1946                                    |
| Tallow, Sheep <b>Animal!</b>               | 0.1384                       | 0.1949                                    |
| Tamanu Seed Oil ♥                          | 0.1437                       | 0.2024                                    |
| Tiaré Flower Oil ♥                         | 0.1796                       | 0.2530                                    |
| Walnut Oil ♥                               | 0.1349                       | 0.1900                                    |
| Wheat Germ Oil ♥                           |                              |   |

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