

Saponification Numbers for Lye (Sodium Hydroxide)

Milder Column with a 5% Discount

Oil	Old	Milder	Oil	Old	Milder
Almond Oil (Sweet)	.136	.129	Mink Oil	.140	.133
Apricot Kernel Oil	.135	.128	Mustard Oil	.124	.118
Avocado Oil	.133	.126	Neat's Foot Oil	.136	.129
Babassu Oil	.175	.166	Neem Oil	.136	.132
Bear Tallow	.139	.132	Niger Seed Oil	.135	.129
Beef Tallow	.140	.133	Nutmeg Butter	.116	.110
Bees Wax (white)	.069	.069*	Olive Oil	.134	.128
Brazil Nut Oil	.175	.166	Olive <i>Pomace</i> Oil		.126
Butterfat, Cow	.1619	.154	Palm Butter	.156	.148
Butterfat, Goat	.1672	.159	Palm Kernel Oil	.156	.148
Camellia Oil	.1362	.129	Palm Oil	.141	.134
Canola Oil (<i>Rapeseed</i>)	.124	.129*	Peanut Oil	.136	.129
Castor Oil	.1286	.125*	Perilla Oil	.137	.130
Chicken Fat	.1389	.132	Poppyseed Oil	.138	.131
Cocoa Butter	.137	.130	Pumpkinseed Oil	.133	.126
Coconut Oil	.190	.1805	Rapeseed Oil (<i>Canola</i>)	.124	.129*
Cod Liver Oil	.1326	.126	Rice Bran Oil	.128	.122
Corn Oil	.136	.129	Ricinus Oil (Castor)	.129	.125*
Cottonseed Oil	.1386	.132	Safflower Oil	.136	.129
Crisco/Veg. Shortening	.136	.129	Sesame Seed Oil	.133	.126
Flaxseed Oil	.1357	.129	Shea Butter	.128	.122
Grapeseed Oil	.1265	.120	Shortening (Vegetable)	.136	.129
Hazelnut Oil	.1356	.129	Soybean Oil	.135	.128
Hemp Seed Oil	.1345	.128	Sunflower Seed Oil	.134	.1275
Java Cotton Oil	.137	.130	Tallow, Deer (Venison)	.138	.131
JoJoba Oil	.069	.066	Tallow, Bear	.139	.132
Karite Butter (Shea)	.128	.122	Tallow, Beef	.141	.134
Kukui Nut Oil	.135	.128	Tallow, Sheep (Mutton)	.138	.131
Lanolin (Wool Fat)	.0741	.070	Tallow, Vegetable	.135	.128
Lard	.138	.131	Tallow, Goat	.138	.131
Macadamia Oil	.139	.132	Walnut Oil	.135	.129
Maize Oil	.136	.129	Wheatgerm Oil	.131	.124
			Wool Fat (Lanolin)	.074	.070

* These numbers have been altered from the 5% difference because a slightly higher ratio will work better.

Special thanks to [Therese and Bill Lott](#) who provided the spreadsheet that saved me a lot of time in calculations! They will send their spreadsheet **lye calculator** to you upon request. Please tell them which program you will be using and the version so that they can attach the appropriate file.

Original Saponification Chart courtesy of Elaine C. White who has a soapmaking page on the Web at:

<http://members.aol.com/oelaineo/soapmaking.html>

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