

Below is a list of oils and waxes and their respective required HLBs.

INCI Nomenclature [RHLB ± 1]

Aleurites Moluccana Seed Oil [7]	Grape (Vitis Vinifera) Seed Oil [7]
Almond Oil NF [6]	Hybrid Safflower (Carthamus Tinctorius) Oil [9]
Anhydrous Lanolin USP [10]	Isopropyl Myristate [11.5]
Apricot Kernel Oil [7]	Isopropyl Palmitate [11.5]
Avocado (Persea Gratissima) Oil [7]	Jobba (Buxus Chinensis) Oil [6.5]
Babassu Oil [8]	Lanolin [10]
Beeswax [12]	Macadamia (Ternifolia) Nut Oil [7]
Borage (Borago Officinalis) Seed Oil [7]	Mangifera Indica (Mango) Seed Butter [8]
Brazil Nut Oil [8]	Mineral Oil [10.5]
C12-15 Alkyl Benzoate [13]	Myristyl Myristate [8.5]
Cannabis Sativa Seed Oil [7]	Olive (Olea Europaea) Oil [7]
Canola Oil [7]	Oryza Sativa (Rice Bran) Oil [7]
Caprylic/Capric Triglyceride [5]	Peanut Oil NF [6]
Carrot (Daucus Carota Sativa) Seed Oil [6]	Petrolatum [7]
Castor (Ricinus Communis) Oil [14]	PPG-15 Stearyl Ether [7]
Ceresin [8]	Retinyl Palmitate [6]
Cetearyl Alcohol [15.5]	Safflower (Carthamus Tinctorius) Oil [8]
Cetyl Alcohol [15.5]	Sesame (Sesamum Indicum) Oil [7]
Cetyl Esters [10]	Shea Butter (Butyrospermum Parkii) [8]
Cetyl Palmitate [10]	Soybean (Glycine Soja) Oil [7]
Coconut Oil [8]	Stearic Acid [15]
Daucus Carota Sativa (Carrot) Root Extract [6]	Stearyl Alcohol [15.5]
Diisopropyl Adipate [9]	Sunflower (Helianthus Annus) Oil [7]
Dimethicone [5]	Sweet Almond (Prunus Amygdalus Dulcis) Oil [7]
Dog Rose (Rosa Canina) Hips Oil [7]	Theobroma Cacao (Cocoa) Seed Butter [6]
Emu Oil [8]	Tocopherol [6]
Evening Primrose Oil [7]	

Emulsifiers sorted by INCI Name

Calcium Stearoyl Lactylate [HLB = 5.1 ± 1]	Oleth-20 [HLB = 15.3 ± 1]
Ceteareth-20 [HLB = 15.2 ± 1]	PEG-100 Stearate [HLB = 18.8 ± 1]
Cetearyl Glucoside [HLB = 11 ± 1]	PEG-20 Almond Glycerides [HLB = 10 ± 1]
Ceteth-10 [HLB = 12.9 ± 1]	PEG-20 Methyl Glucose Sesquistearate [HLB = 15 ± 1]
Ceteth-2 [HLB = 5.3 ± 1]	PEG-25 Hydrogenated Castor Oil [HLB = 10.8 ± 1]
Ceteth-20 [HLB = 15.7 ± 1]	PEG-30 Dipolyhydroxystearate [HLB = 5.5 ± 1]
Cocamide MEA [HLB = 13.5 ± 1]	PEG-4 Dilaurate [HLB = 6 ± 1]
Glyceryl Laurate [HLB = 5.2 ± 1]	PEG-40 Sorbitan Peroleate [HLB = 9 ± 1]
Glyceryl Stearate [HLB = 3.8 ± 1]	PEG-60 Almond Glycerides [HLB = 15 ± 1]
Glyceryl Stearate (and) PEG-100 Stearate [HLB = 11 ± 1]	PEG-8 Laurate [HLB = 13 ± 1]
Glyceryl Stearate SE [HLB = 5.8 ± 1]	PEG-80 Sorbitan Laurate [HLB = 19.1 ± 1]
Glycol Distearate [HLB = 1 ± 1]	Polysorbate 20 [HLB = 16.7 ± 1]
Glycol Stearate [HLB = 2.9 ± 1]	Polysorbate 60 [HLB = 14.9 ± 1]
Isoceteth-20 [HLB = 15.7 ± 1]	Polysorbate 80 [HLB = 15 ± 1]
Isosteareth-20 [HLB = 15 ± 1]	Polysorbate 85 [HLB = 11 ± 1]
Lauramide DEA [HLB = 15 ± 1]	Sodium Stearoyl Lactylate [HLB = 8.3 ± 1]
Laureth-23 [HLB = 16.9 ± 1]	Sorbitan Isostearate [HLB = 4.7 ± 1]
Laureth-4 [HLB = 9.7 ± 1]	Sorbitan Laurate [HLB = 8.6 ± 1]
Lecithin [HLB = 4 ± 1]	Sorbitan Oleate [HLB = 4.3 ± 1]
Lecithin [HLB = 9.7 ± 1]	Sorbitan Sesquioleate [HLB = 3.7 ± 1]
Linoleamide DEA [HLB = 10 ± 1]	Sorbitan Stearate [HLB = 4.7 ± 1]
Methyl Glucose Sesquistearate [HLB = 6.6 ± 1]	Sorbitan Stearate (and) Sucrose Cocoate [HLB = 6 ± 1]
Oleth-10 [HLB = 12.4 ± 1]	Sorbitan Trioleate [HLB = 1.8 ± 1]
Oleth-10 / Polyoxyl 10 Oleyl Ether NF [HLB = 12.4 ± 1]	Stearamide MEA [HLB = 11 ± 1]
Oleth-2 [HLB = 4.9 ± 1]	Steareth-2 [HLB = 4.9 ± 1]
Oleth-20 [HLB = 12.4 ± 1]	Steareth-21 [HLB = 15.5 ± 1]

Emulsifiers sorted by HLB Value

Glycol Distearate [HLB = 1 ± 1]	Cetearyl Glucoside [HLB = 11 ± 1]
Sorbitan Trioleate [HLB = 1.8 ± 1]	Polysorbate 85 [HLB = 11 ± 1]
Glycol Stearate [HLB = 2.9 ± 1]	Glyceryl Stearate (and) PEG-100 Stearate [HLB = 11 ± 1]
Sorbitan Sesquioleate [HLB = 3.7 ± 1]	Stearamide MEA [HLB = 11 ± 1]
Glyceryl Stearate [HLB = 3.8 ± 1]	Oleth-10 / Polyoxyl 10 Oleyl Ether NF [HLB = 12.4 ± 1]
Lecithin [HLB = 4 ± 1]	Oleth-10 [HLB = 12.4 ± 1]
Sorbitan Oleate [HLB = 4.3 ± 1]	Oleth-20 [HLB = 12.4 ± 1]
Sorbitan Stearate [HLB = 4.7 ± 1]	Ceteth-10 [HLB = 12.9 ± 1]
Sorbitan Isostearate [HLB = 4.7 ± 1]	PEG-8 Laurate [HLB = 13 ± 1]
Oleth-2 [HLB = 4.9 ± 1]	Cocamide MEA [HLB = 13.5 ± 1]
Steareth-2 [HLB = 4.9 ± 1]	Polysorbate 60 [HLB = 14.9 ± 1]
Calcium Stearoyl Lactylate [HLB = 5.1 ± 1]	PEG-60 Almond Glycerides [HLB = 15 ± 1]
Glyceryl Laurate [HLB = 5.2 ± 1]	Isosteareth-20 [HLB = 15 ± 1]
Ceteth-2 [HLB = 5.3 ± 1]	Lauramide DEA [HLB = 15 ± 1]
PEG-30 Dipolyhydroxystearate [HLB = 5.5 ± 1]	Polysorbate 80 [HLB = 15 ± 1]
Glyceryl Stearate SE [HLB = 5.8 ± 1]	PEG-20 Methyl Glucose Sesquistearate [HLB = 15 ± 1]
PEG-4 Dilaurate [HLB = 6 ± 1]	Ceteareth-20 [HLB = 15.2 ± 1]
Sorbitan Stearate (and) Sucrose Cocoate [HLB = 6 ± 1]	Oleth-20 [HLB = 15.3 ± 1]
Methyl Glucose Sesquistearate [HLB = 6.6 ± 1]	Steareth-21 [HLB = 15.5 ± 1]
Sodium Stearoyl Lactylate [HLB = 8.3 ± 1]	Ceteth-20 [HLB = 15.7 ± 1]
Sorbitan Laurate [HLB = 8.6 ± 1]	Isoceteth-20 [HLB = 15.7 ± 1]
PEG-40 Sorbitan Peroleate [HLB = 9 ± 1]	Polysorbate 20 [HLB = 16.7 ± 1]
Lecithin [HLB = 9.7 ± 1]	Laureth-23 [HLB = 16.9 ± 1]
Laureth-4 [HLB = 9.7 ± 1]	PEG-100 Stearate [HLB = 18.8 ± 1]
PEG-20 Almond Glycerides [HLB = 10 ± 1]	PEG-80 Sorbitan Laurate [HLB = 19.1 ± 1]
Linoleamide DEA [HLB = 10 ± 1]	
PEG-25 Hydrogenated Castor Oil [HLB = 10.8 ± 1]	