

Alkalis / builders

	Chemical name	Formula	Formula weight	Bulk density lbs. / cu. ft.	Solubility, 20° C g / 100g H ₂ O	Wt. % of alkali	pH, 1% solution	Wt. % Na ₂ O
Alkalis, dry								
Caustic soda, flake	Sodium hydroxide	NaOH	40.0	45 / 48	109.0	97.4	13.10	75.8
Caustic soda, compounders	Sodium hydroxide	NaOH	40.0	45 / 48	109.0	97.3	13.10	76.0
Caustic soda, beads	Sodium hydroxide	NaOH	40.0	70 / 73	109.0	97.6	11.40	76.0
Soda ash, light	Sodium carbonate	Na ₂ CO ₃	106.0	48 / 54	20.8	99.8	11.40	58.4
Soda ash, dense	Sodium carbonate	Na ₂ CO ₃	106.0	57 / 65	20.8	99.9	13.10	58.4
Caustic potash	Potassium hydroxide	KOH	56.1	55 / 60	117.0	90.2	8.50	- - -
Sodium bicarbonate	Sodium acid carbonate	NaHCO ₃	84.0	66	9.5	99.0	9.90	36.9
Sodium sesquicarbonate		Na ₂ CO ₃ • NaHCO ₃ • 2H ₂ O	226.0	45	16.0	84.0		41.7
						% H₂O	Av bl oxygen	
Borax, 5 mol.	Sodium tetraborate, penta.	Na ₂ B ₄ O ₇ • 5H ₂ O	291.4	63 / 71	30.92	- - -	9.24	21.3
Borax, 10 mol.	Sodium tetraborate, deca.	Na ₂ B ₄ O ₇ • 10H ₂ O	381.4	51 / 59	47.24	- - -	9.24	16.2
Sodium sulfate		Na ₂ SO ₄	142.0	75 / 90	0.01	- - -	8.30	43.4
Sodium perborate, mono.		NaBO ₃ • H ₂ O	99.9	40.6	18.02	15.0%	10.20	- - -
Sodium perborate, tetra.		NaBO ₂ • H ₂ O ₂ • 3H ₂ O	153.9	43 / 59	46.79	10.5%	10.20	- - -
Sodium percarbonate		2Na ₂ CO ₃ • 3H ₂ O ₂	314.0	61	2.10	13.0%	10.50	- - -
Alkalis, liquid			Specific gravity		Freezing point, °F		Lbs. alkali per gallon	
Caustic soda, 50%	Sodium hydroxide	NaOH (50% aq.)	1.530		56		6.38	
Caustic potash, 45%	Potassium hydroxide	KOH (45% aq.)	1.457		-27		5.47	
Aqua ammonia, 26°	Ammonium hydroxide	NH ₄ OH (29.4% aq.)	0.897		-107		2.20	