onBalance Simplified Formulas for Chemical Additions to Pools

Lowering Total Alkalinity wi	th Muriatic Acid: (Volume ÷ 125,000) x ppm desired change = quarts
Lowering Total Alkalinity wi	th Sodium Bisulfate: (Volume ÷ 47,000) x ppm desired change = pounds
Raising Total Alkalinity with	Sodium Bicarbonate: (Volume ÷ 71,400) x ppm desired change = pounds
Raising Total Alkalinity with	Sodium Carbonate: (Volume ÷ 113,200) x ppm desired change = pounds
Raising Total Alkalinity with	Sodium Sesquicarbonate: (Volume ÷ 80,000) x ppm desired change = pounds
Chlorine Gas:	(Volume ÷ 120,000) x ppm desired change = pounds
Sodium Hypochlorite: (Based on 10%/weight – this can v	(Volume \div 30,000) x ppm desired change = quarts vary slightly based on the strength and age of the product, but is a usable approximation)
Calcium Hypochlorite: (Based on 65% av Cl)	(Volume ÷ 78,000) x ppm desired change = pounds
Lithium Hypochlorite:	(Volume ÷ 42,000) x ppm desired change = pounds
Trichlor:	(Volume ÷ 108,000) x ppm desired change = pounds
Dichlor (56% av Cl):	(Volume ÷ 67,200) x ppm desired change = pounds
Dichlor (62% av Cl):	(Volume ÷ 74,400) x ppm desired change = pounds
Sodium Sulfite: (Amount in pounds to reduce exce	(Volume ÷ 67,250) x ppm unwanted chlorine = pounds ss chlorine)
Sodium Thiosulfate: (Amount in pounds to reduce exce	(Volume ÷ 117,600) x ppm unwanted chlorine = pounds ess chlorine – based on 100% sodium thiosulfate pentahydrate)
Calcium Chloride: (Amount in pounds to increase ca	(Volume ÷ 83,300) x ppm desired increase = pounds alcium hardness with 77% calcium chloride strength – use 101,700 as divisor for 94% strength)
Cyanuric Acid: (Amount in pounds to increase cya	(Volume ÷ 120,000) x ppm desired change = pounds unuric acid – based on 100% cyanuric acid strength)
Borax: (Amount in pounds to increase ppr	(Volume \div 17,800) x ppm boron = pounds m of boron using 5 mol borax, or sodium tetraborate pentahydrate – Na ₂ B ₄ O ₇ •5H ₂ O)
PHMB: (Amount in pounds to increase ppr	(Volume ÷ 250,000) x ppm PHMB = quarts m of PHMB – using standard 20% polyhexamethylene biguanide)