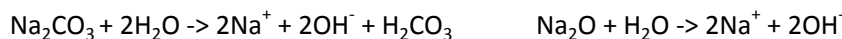


	Molar concentrations		Normal concentrations	
NaOH	1 Mole/l =	40.00 g/l	1 N =	40.00 g/l
Na <sub>2</sub> O	1 Mole/l =	61.98 g/l	1 N =	30.99 g/l
Na <sub>2</sub> CO <sub>3</sub>	1 Mole/l =	105.99 g/l	1 N =	52.99 g/l
Al <sub>2</sub> O <sub>3</sub>	1 Mole/l =	101.96 g/l		

### Sodium carbonate Na<sub>2</sub>CO<sub>3</sub>



1 kg of compound in first column corresponds with presented kg of compounds to the right

105.99	Na <sub>2</sub> CO <sub>3</sub>	Na <sub>2</sub> O	NaOH
Na <sub>2</sub> CO <sub>3</sub>	1.000	0.585	0.755
Na <sub>2</sub> O	1.710	1.000	1.291
NaOH	1.325	0.775	1.000

### Alumina and caustic concentration ratios

A/C =	American Bayer A/C ratio:	Al <sub>2</sub> O <sub>3</sub> /Na <sub>2</sub> CO <sub>3</sub> in gram/liter
RP =	Rapport Pondéral:	Al <sub>2</sub> O <sub>3</sub> /Na <sub>2</sub> O in gram/liter
MR =	Molar Ratio:	Na <sub>2</sub> O/Al <sub>2</sub> O <sub>3</sub> in Moles/liter
MR =	1.645 x	Na <sub>2</sub> O/Al <sub>2</sub> O <sub>3</sub> in gram/liter

RP = 1.71 x A/C	A/C = 0.585 x RP
RP = 1.645 / MR	A/C = 0.962 / MR
MR = 1.645 / RP	MR = 0.962 / A/C