

LIQUID CAUSTIC SODA - ENTHALPY

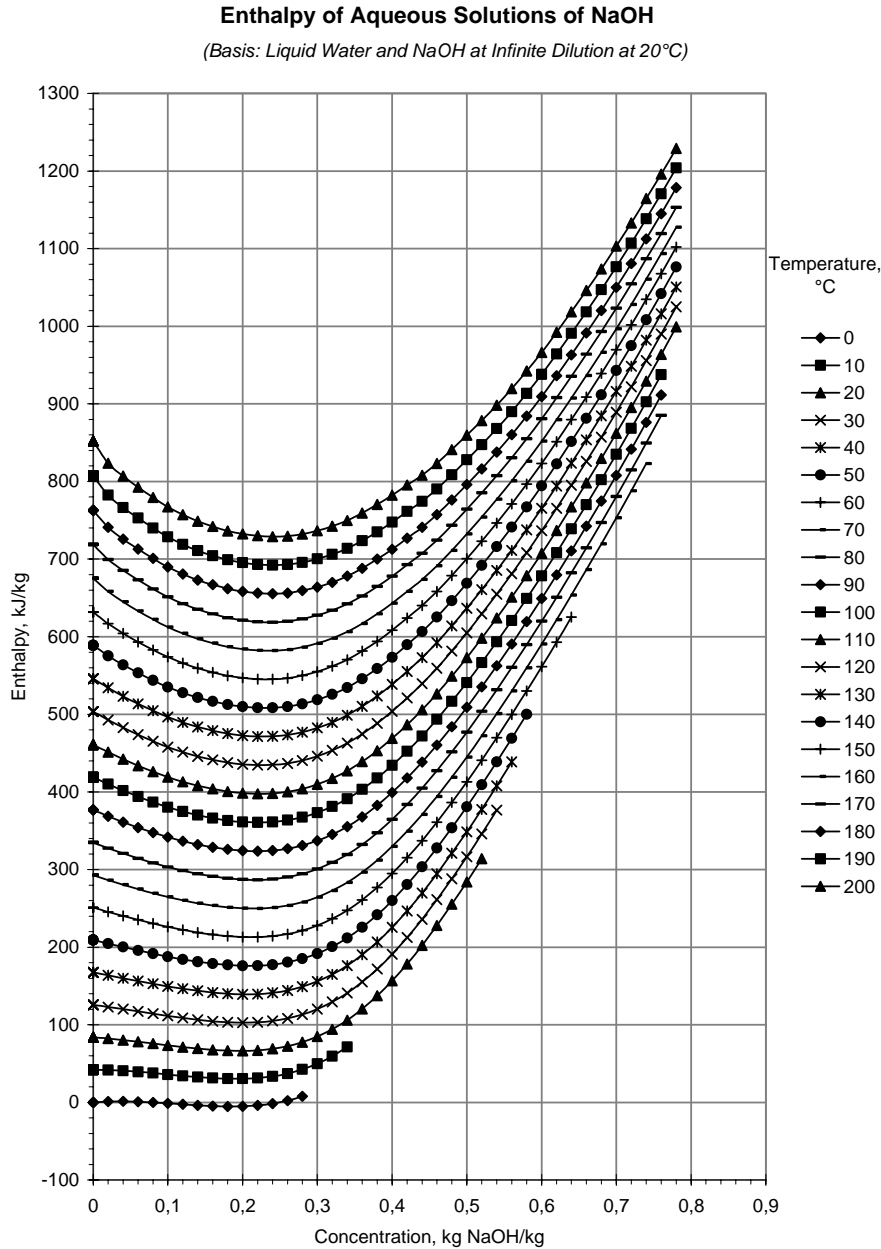
PCH-1110-0002

Concentration, kg NaOH/kg	Enthalpy of Aqueous Solutions of NaOH, kJ/kg (Basis : Liquid Water and NaOH at Infinite Dilution at 20°C)																				
	Temperature, °C																				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
0.00	0.0	41.8	84.6	128.6	168.9	211.1	254.6	299.5	341.5	383.0	424.6	466.8	508.7	550.6	592.7	635.0	677.5	720.1	763.1	806.4	849.9
0.02	1.2	41.9	82.3	123.0	163.8	204.6	245.6	287.3	328.4	369.5	410.6	452.0	493.4	534.8	576.4	618.1	660.0	702.1	744.4	786.9	829.7
0.04	1.4	41.1	79.7	119.0	158.8	198.5	237.5	276.5	316.9	357.5	398.2	439.0	479.8	520.8	561.9	603.0	644.4	685.8	727.5	769.3	811.4
0.06	1.0	39.7	76.9	115.5	154.1	192.9	230.4	267.3	307.0	347.2	387.5	427.6	468.0	508.5	549.0	589.7	630.5	671.4	712.4	753.6	795.0
0.08	0.0	37.9	74.2	111.9	149.9	187.9	224.3	259.6	298.7	338.5	378.3	417.8	457.8	497.8	538.0	578.1	618.4	658.7	699.2	739.8	780.5
0.10	-1.3	36.0	71.6	108.8	146.1	183.6	219.2	253.4	292.0	331.4	370.8	409.7	449.3	488.9	528.6	568.3	608.0	647.8	687.8	727.8	767.9
0.12	-2.7	34.0	69.3	106.1	143.0	180.1	215.2	248.7	286.8	325.8	364.8	403.3	442.5	481.6	520.8	560.1	599.4	638.7	678.1	717.6	757.1
0.14	-3.9	32.2	67.5	104.0	140.6	177.4	212.3	245.5	283.2	321.8	360.4	398.5	437.2	476.0	514.8	553.6	592.4	631.3	670.2	709.1	748.1
0.16	-4.9	30.8	66.3	102.6	139.1	175.7	210.7	243.8	281.1	319.4	357.6	395.3	433.6	472.0	510.3	548.7	587.1	625.5	663.9	702.4	740.8
0.18	-5.3	30.1	65.9	102.1	138.5	175.0	210.2	243.5	280.6	318.5	356.4	393.7	431.6	469.6	507.5	545.5	583.5	621.4	659.4	697.3	735.3
0.20	-5.1	30.2	66.4	102.5	138.9	175.4	211.0	244.8	281.6	319.1	356.6	393.6	431.2	468.8	506.3	543.9	581.4	619.0	656.5	694.0	731.5
0.22	-3.9	31.3	67.9	104.1	140.5	177.0	213.1	247.5	284.1	321.3	358.5	395.2	432.4	469.6	506.7	543.9	581.0	618.2	655.3	692.3	729.4
0.24	-1.5	33.6	70.7	106.9	143.3	179.9	216.6	251.7	288.1	325.0	361.8	398.2	435.1	471.9	508.7	545.4	582.2	618.9	655.6	692.3	728.9
0.26	2.2	37.4	74.8	111.1	147.6	184.2	221.5	257.5	293.7	330.2	366.6	402.9	439.3	475.7	512.2	548.6	584.9	621.3	657.6	693.8	730.0
0.28	7.4	42.8	80.5	116.7	153.3	190.0	227.8	264.7	300.7	336.9	373.0	409.0	445.1	481.1	517.2	553.2	589.2	625.2	661.1	696.9	732.8
0.30	8.8	50.0	87.8	124.0	160.6	197.3	235.6	273.3	309.2	345.1	380.8	416.6	452.3	488.0	523.7	559.4	595.0	630.6	666.1	701.6	737.0
0.32	9.3	96.9	133.0	169.5	206.2	244.9	283.5	319.3	354.7	390.2	425.7	461.1	496.4	531.7	567.0	602.3	637.5	672.7	707.8	742.8	
0.34	70.8	107.9	143.9	180.3	216.9	255.8	295.2	330.7	365.9	401.0	436.3	471.3	506.3	541.2	576.1	611.0	645.9	680.7	715.4	750.2	
0.36	121.1	156.9	193.0	229.4	268.4	308.3	343.7	378.5	413.2	448.3	482.9	517.6	552.1	586.7	621.2	655.7	690.2	724.6	758.9		
0.38	136.6	171.9	207.7	243.7	282.6	322.9	358.1	392.5	426.9	461.8	496.0	530.3	564.5	598.7	632.9	667.1	701.1	735.1	769.1		
0.40	154.4	189.2	224.4	260.1	298.5	339.0	374.0	408.1	442.1	476.6	510.5	544.4	578.3	612.1	645.9	679.7	713.4	747.1	780.7		
0.42	174.8	208.9	243.5	278.5	316.1	356.5	391.3	425.0	458.7	492.9	526.5	560.0	593.5	626.9	660.3	693.7	727.1	760.4	793.7		
0.44	197.9	231.1	264.8	299.0	335.6	375.6	410.0	443.4	476.6	510.6	543.8	576.9	610.0	643.1	676.1	709.2	742.2	775.1	808.0		
0.46	223.9	256.0	288.6	321.8	356.9	396.1	430.2	463.1	496.0	529.7	562.4	595.2	627.9	660.6	693.3	725.9	758.5	791.1	823.7		
0.48	252.9	283.6	314.9	346.9	380.0	418.0	451.8	484.3	516.8	550.1	582.5	614.8	647.1	679.5	711.7	744.0	776.2	808.4	840.6		
0.50	285.1	314.1	343.9	374.5	405.1	441.5	474.8	506.9	539.0	571.9	603.8	635.8	667.7	699.6	731.5	763.4	795.2	827.0	858.8		
0.52	320.5	347.7	375.6	404.5	432.2	466.4	499.1	530.9	562.6	594.2	625.8	657.5	689.1	720.6	752.0	783.4	814.7	845.9	877.0		
0.54			410.2	437.1	461.3	492.8	524.9	556.2	587.5	619.4	650.5	681.6	712.7	743.8	774.8	805.8	836.9	867.9	898.8		
0.56			447.8	472.4	492.5	520.6	552.1	583.0	613.8	645.1	675.8	706.4	737.1	767.7	798.3	828.9	859.5	890.1	920.6		
0.58				510.4	525.7	549.9	580.6	611.0	641.4	672.0	702.3	732.5	762.7	792.9	823.1	853.2	883.3	913.4	943.5		
0.60					561.1	580.7	610.5	640.5	670.4	700.3	730.3	759.8	789.6	819.3	849.0	878.6	908.3	937.9	967.5		
0.62					598.7	613.0	641.8	671.3	700.6	729.8	759.1	788.4	817.6	846.9	876.1	905.2	934.4	963.5	992.6		
0.64					638.5	646.7	674.4	703.4	732.2	760.5	789.4	818.1	846.9	875.6	904.3	933.0	961.6	990.2	1018.8		
0.66						681.8	708.4	736.8	765.1	792.5	820.8	849.1	877.3	905.5	933.7	961.8	989.9	1017.9	1045.9		
0.68						718.4	743.7	771.5	799.3	826.6	853.4	881.2	908.9	936.5	964.1	991.7	1019.2	1046.6	1074.0		
0.70						756.5	780.3	807.6	834.8	860.0	887.2	914.4	941.6	968.8	995.7	1022.6	1049.5	1076.4	1103.1		
0.72						796.0	818.2	844.9	871.5	895.5	922.2	948.8	975.4	1001.8	1028.3	1054.6	1080.9	1107.0	1133.1		
0.74						837.0	857.5	883.5	909.5	932.2	958.3	984.3	1010.3	1036.1	1061.9	1087.6	1113.2	1138.7	1164.1		
0.76						889.0	898.0	923.4	948.7	970.0	995.5	1020.9	1046.2	1071.4	1096.5	1121.5	1146.4	1171.2	1195.8		
0.78									1009.0	1033.8	1058.6	1083.2	1107.8	1132.2	1156.5	1180.6	1204.6	1228.4			

References: McCabe, Trans. A.I.Ch.E. 31, 129 (1935) - Bertetti et McCabe, Ind. Eng. Chem. 28, 247 (1936) - Bertetti et McCabe, Ind. Eng. Chem. 28, 375 (1936) - McCabe et Wilson, Ind. Eng. Chem. 34, 558 (1942)

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