

Short Communications

Correction to "Ionic Concentrations in Calcium Phosphate Solutions. II. The Solubility of Hydroxylapatite in Water or Salt Solutions at 37 °C"

H. E. LUNDAGER MADSEN

Chemistry Department, Royal Veterinary and Agricultural University, Thorvaldsensvej 40, DK-1871 Copenhagen V, Denmark

We have found an error in the program for solubility calculations which means that the values in Table 2 (*Acta Chem. Scand. A 29* (1975) 745, 747) are wrong. The corrected table is given below.

Table 2. Calcium and total phosphate concentration in mmol/l.

$I_0 =$ $pK_{sp}' =$ pH	0				0.15			
	6.5		7.5		6.5		7.5	
	[Ca ²⁺]	[P]	[Ca ²⁺]	[P]	[Ca ²⁺]	[P]	[Ca ²⁺]	[P]
5.0	3.426	6.791	2.455	4.868	6.910	13.568	5.122	10.058
5.1	2.717	5.375	1.956	3.871	5.622	10.990	4.175	8.164
5.2	2.163	4.268	1.563	3.086	4.585	8.914	3.411	6.633
5.3	1.727	3.399	1.253	2.467	3.747	7.236	2.791	5.392
5.4	1.384	2.714	1.007	1.976	3.070	5.879	2.289	4.385
5.5	1.113	2.171	.812	1.586	2.520	4.778	1.881	3.568
5.6	.897	1.741	.656	1.275	2.075	3.885	1.550	2.903
5.7	.725	1.398	.532	1.026	1.712	3.160	1.280	2.362
5.8	.588	1.124	.432	.827	1.418	2.570	1.060	1.922
5.9	.478	.905	.352	.667	1.178	2.091	.881	1.565
6.0	.390	.730	.288	.539	.982	1.702	.735	1.274
6.1	.319	.589	.236	.435	.822	1.386	.615	1.038
6.2	.262	.476	.194	.352	.691	1.130	.518	.846
6.3	.216	.385	.160	.285	.584	.923	.437	.691
6.4	.179	.311	.133	.231	.496	.756	.372	.566
6.5	.149	.252	.111	.187	.423	.621	.317	.465
6.6	.125	.205	.092	.152	.363	.512	.272	.384
6.7	.105	.166	.078	.124	.313	.424	.235	.318
6.8	.088	.136	.066	.101	.271	.354	.203	.265
6.9	.075	.111	.056	.082	.236	.297	.177	.222
7.0	.064	.091	.048	.068	.206	.250	.154	.188
7.1	.055	.075	.041	.056	.180	.213	.135	.159
7.2	.047	.062	.035	.046	.158	.182	.119	.136
7.3	.041	.052	.031	.039	.139	.156	.105	.117
7.4	.036	.044	.027	.033	.123	.135	.092	.102
7.5	.031	.037	.023	.028	.109	.118	.082	.088
7.6	.027	.032	.020	.024	.096	.103	.072	.077
7.7	.024	.027	.018	.020	.085	.090	.064	.068
7.8	.021	.023	.016	.017	.076	.079	.057	.059
7.9	.019	.020	.014	.015	.067	.070	.051	.052
8.0	.016	.018	.012	.013	.060	.062	.045	.046

Received March 10, 1976.