

CHAPTER 3. Concentration vs. Time data from experiments in this study for dissolution experiments in ABSENCE of fluoride

Expt. No.	Concentration Corrected (m)	Time (sec)
1A-VII	0	1.67E-05
	17388	2.20E-05
	82476	2.97E-05
	171576	3.95E-05
	293976	4.89E-05
	365400	4.89E-05
	437976	5.10E-05
	535788	6.10E-05
	622800	6.29E-05
	708588	6.46E-05
776988	6.80E-05	
2A-0	0	2.31E-05
	86688	2.84E-04
	173088	3.66E-04
	345276	5.14E-04
	429588	5.39E-04
	605088	5.93E-04
	693000	6.59E-04
	778176	6.46E-04
3A-I	0	1.45E-06
	86688	1.48E-04
	173088	2.17E-04
	254700	2.43E-04
	345600	2.55E-04
	429588	2.61E-04
	529776	2.82E-04
	604800	3.00E-04
	693000	3.05E-04
778176	3.09E-04	
4A-II	0	9.62E-06
	86400	8.88E-05
	172800	1.20E-04
	254376	1.35E-04
	345276	1.53E-04

	429300	1.63E-04
	529488	1.71E-04
	604800	1.76E-04
	692676	1.92E-04
	777888	1.96E-04
5A-III	0	2.74E-06
	86076	3.91E-05
	172476	6.76E-05
	254088	8.57E-05
	345888	9.14E-05
	428688	9.41E-05
	529200	1.04E-04
	604188	1.16E-04
	692388	1.32E-04
6A-iV	0	1.80E-05
	85788	3.70E-05
	172188	5.22E-05
	345600	6.86E-05
	428400	7.12E-05
	528876	7.62E-05
	604188	8.31E-05
	777600	8.85E-05
7A-V	0	2.13E-05
	85788	4.66E-05
	172188	5.26E-05
	253476	6.41E-05
	345600	7.23E-05
	428400	7.49E-05
	528876	7.49E-05
	605376	8.18E-05
	691776	9.06E-05
	777276	9.46E-05
8A-VI	0	1.36E-05
	85500	2.92E-05
	171576	4.70E-05
	253188	4.70E-05
	344988	5.50E-05
	428400	5.50E-05
	528300	6.71E-05

	603576	6.71E-05
	691488	8.00E-05
	776700	7.20E-05
9A-VII	0	1.87E-06
	173700	4.55E-05
	255276	5.07E-05
	355500	5.89E-05
	432000	6.70E-05
	518688	6.97E-05
	604188	6.97E-05
	690588	7.94E-05
10A-VII	0	1.87E-06
	173988	4.00E-05
	255276	4.25E-05
	355788	5.40E-05
	430776	5.61E-05
	518976	5.43E-05
	604476	6.31E-05
	690876	6.73E-05
	775188	8.23E-05
12A-0	0	2.21E-05
	88200	2.21E-04
	174600	2.47E-04
	261900	3.44E-04
	346176	4.30E-04
	436500	4.21E-04
	606888	4.65E-04
	692388	4.97E-04
	781200	5.94E-04
13A-I	0	5.30E-06
	88200	6.62E-05
	174600	1.34E-04
	261576	1.46E-04
	346176	1.81E-04
	432900	1.90E-04
	527976	2.12E-04
	692388	2.21E-04
	782388	2.48E-04

14A-II	0	4.01E-06
	87876	4.50E-05
	174276	7.23E-05
	346176	8.58E-05
	436176	1.03E-04
	527976	1.08E-04
	606600	1.12E-04
	782100	1.38E-04

15A-III	0	1.85E-05
	174276	4.68E-05
	261288	5.17E-05
	435888	6.58E-05
	527688	7.40E-05
	692100	1.00E-04
	781776	8.80E-05

16A-IV	0	1.19E-05
	87588	1.93E-05
	173988	3.35E-05
	261000	6.15E-05
	435888	8.34E-05
	527400	1.10E-04
	691776	1.09E-04
	781488	1.26E-04

17A-V	0	9.65E-06
	87876	3.41E-05
	173988	6.15E-05
	261000	8.18E-05
	345600	9.37E-05
	435600	1.18E-04
	527400	1.24E-04
	606276	1.02E-04
	691776	1.14E-04
	781488	1.23E-04

18A-VI	0	1.31E-05
	87876	2.45E-05
	173700	5.26E-05
	260676	5.47E-05
	435276	8.75E-05
	527076	1.01E-04

	691776	1.17E-04
	781200	1.28E-04
19A-0	0	7.32E-05
	10188	1.36E-04
	38988	1.83E-04
	53100	2.21E-04
	82800	2.44E-04
	96588	2.63E-04
	111276	2.85E-04
	126576	2.93E-04
	139500	2.90E-04
20A-I	0	2.75E-05
	10188	3.06E-05
	24588	4.25E-05
	38988	8.22E-05
	53100	9.56E-05
	82800	1.11E-04
	96588	1.23E-04
	111276	1.25E-04
	139176	1.42E-04
21A-0	0	5.74E-05
	10188	8.47E-05
	24876	9.44E-05
	38988	1.22E-04
	53388	1.43E-04
	82800	1.59E-04
	96588	1.82E-04
	111276	1.92E-04
	126576	2.01E-04
	139500	2.39E-04
	171576	2.41E-04
22A-I	0	7.78E-06
	24588	3.17E-05
	38988	4.71E-05
	53100	5.00E-05
	82800	6.11E-05
	96588	7.15E-05
	111276	7.88E-05
	126576	8.33E-05

	139500	8.97E-05
	171576	1.15E-04
23A-0	0	8.87E-05
	29088	1.08E-04
	43488	1.14E-04
	72288	1.50E-04
	100476	1.56E-04
	115200	1.59E-04
	128988	1.65E-04
	158076	1.78E-04
	188100	2.16E-04
24A-I	0	-2.24E-06
	29088	4.12E-05
	43200	4.54E-05
	72288	6.39E-05
	86400	7.21E-05
	100188	7.47E-05
	114876	6.99E-05
	128988	7.21E-05
	158076	9.04E-05
	188100	8.33E-05
25A-II	0	6.86E-06
	14076	3.67E-05
	43200	3.68E-05
	72288	4.21E-05
	86400	3.87E-05
	100188	3.87E-05
	114876	4.91E-05
	128988	5.18E-05
	157788	4.93E-05
	188388	5.10E-05
26B-0	0	2.29E-05
	11700	1.05E-04
	26388	1.41E-04
	40500	1.47E-04
	69876	1.81E-04
	83700	2.19E-04
	97488	2.37E-04
	112176	2.48E-04

	126288	2.24E-04
	155376	2.67E-04
	185976	2.59E-04
27B-I	0	1.01E-05
	11376	5.02E-05
	26100	6.20E-05
	40500	6.67E-05
	69876	9.41E-05
	83376	1.09E-04
	97200	1.07E-04
	112176	1.11E-04
	126000	1.17E-04
	155088	1.19E-04
	185688	1.29E-04
28B-0	6876	9.65E-06
	20700	3.98E-05
	35676	7.28E-05
	64476	1.00E-04
	78876	1.11E-04
	92700	1.22E-04
	108288	1.39E-04
	122400	1.42E-04
	156600	1.64E-04
	169776	1.65E-04
29B-I	6588	2.96E-07
	20700	3.47E-05
	35388	4.62E-05
	64188	6.85E-05
	78588	7.00E-05
	92376	7.46E-05
	108000	7.40E-05
	122076	8.26E-05
	156276	9.12E-05
	169776	9.56E-05
30B-II	6300	1.47E-05
	20088	3.25E-05
	34776	4.58E-05
	63900	6.28E-05
	78300	6.72E-05

	92088	7.61E-05
	107388	8.02E-05
	121788	8.47E-05
	155988	9.06E-05
	169488	9.45E-05
31B-III	5976	5.16E-06
	20088	9.83E-06
	34776	1.81E-05
	64188	2.86E-05
	77976	3.37E-05
	91800	3.90E-05
	107100	4.11E-05
	121500	3.92E-05
	155700	5.08E-05
	169488	4.91E-05
32B-0	5688	2.58E-05
	19476	5.32E-05
	34200	1.05E-04
	63000	1.35E-04
	77400	1.45E-04
	91476	1.52E-04
	106776	1.62E-04
	121176	1.74E-04
	155088	2.07E-04
	169200	1.94E-04
33B-I	5076	2.30E-05
	18900	2.84E-05
	33876	6.66E-05
	62676	7.90E-05
	77076	8.97E-05
	90900	9.57E-05
	106200	1.01E-04
	120600	1.05E-04
	154800	1.12E-04
	168876	1.20E-04
34B-II	4788	-3.66E-06
	18576	3.75E-06
	33300	3.93E-05
	62100	5.86E-05

	76500	6.60E-05
	90576	7.21E-05
	105588	7.72E-05
	120276	7.97E-05
	154188	8.91E-05
	168588	9.64E-05
35B-III	4500	3.74E-06
	18288	2.03E-05
	32976	2.20E-05
	62100	2.86E-05
	76176	3.50E-05
	90288	4.07E-05
	105300	4.68E-05
	119988	5.10E-05
	153900	5.50E-05
	168588	5.84E-05
36C-0	172800	2.82E-04
	345600	3.95E-04
	518400	4.51E-04
	691200	5.15E-04
	864000	5.76E-04
	1209600	6.25E-04
	1382400	7.89E-04
	1987200	8.26E-04
	2592000	8.97E-04
	3196800	9.80E-04
	3801600	1.06E-03
	18748800	1.63E-03
	25574400	1.18E-03
37C-I	172800	1.15E-04
	345600	1.46E-04
	518400	1.85E-04
	691200	2.18E-04
	864000	2.43E-04
	1209600	2.87E-04
	1382400	3.40E-04
	1987200	4.11E-04
	2592000	5.06E-04
	3196800	5.57E-04
	3801600	6.19E-04

	18748800	1.08E-03
	25574400	1.16E-03
38C-II	172800	5.02E-05
	345600	7.50E-05
	518400	1.02E-04
	691200	1.09E-04
	864000	1.24E-04
	1209600	1.49E-04
	1382400	1.44E-04
	1987200	1.84E-04
	2592000	2.12E-04
	3196800	2.39E-04
	3801600	2.56E-04
	18748800	5.91E-04
	25574400	7.61E-04
39C-III	172800	3.27E-05
	345600	6.26E-05
	518400	6.57E-05
	691200	7.93E-05
	864000	7.95E-05
	1209600	9.70E-05
	1382400	8.58E-05
	1987200	1.03E-04
	2592000	1.28E-04
	3196800	1.56E-04
	3801600	1.73E-04
	18748800	3.69E-04
	25574400	4.04E-04
40B-0	172800	5.16E-04
	345600	6.50E-04
	518400	7.80E-04
	691200	8.86E-04
	864000	9.58E-04
	1209600	1.07E-03
	1382400	1.23E-03
	1987200	1.31E-03
	2592000	1.41E-03
	3196800	1.54E-03
	3801600	1.49E-03
	18748800	1.66E-03

	25574400	1.62E-03
41B-I	172800	2.33E-04
	345600	3.50E-04
	518400	4.33E-04
	691200	5.03E-04
	864000	5.47E-04
	1209600	6.17E-04
	1382400	6.53E-04
	1987200	8.75E-04
	2592000	9.72E-04
	3196800	1.06E-03
	3801600	1.14E-03
	18748800	1.63E-03
	25574400	1.68E-03
42B-II	172800	1.34E-04
	345600	1.71E-04
	518400	2.18E-04
	691200	2.56E-04
	864000	2.81E-04
	1209600	3.40E-04
	1382400	3.69E-04
	1987200	4.45E-04
	2592000	5.08E-04
	3196800	5.69E-04
	3801600	6.41E-04
	18748800	1.07E-03
	25574400	1.22E-03
43B-III	172800	6.28E-05
	345600	1.05E-04
	518400	1.34E-04
	691200	1.54E-04
	864000	1.77E-04
	1209600	2.10E-04
	1382400	2.19E-04
	1987200	2.74E-04
	2592000	3.23E-04
	3196800	3.60E-04
	3801600	4.03E-04
	18748800	8.49E-04
	25574400	9.95E-04

44C-0	76500	1.73E-04
	171000	2.70E-04
	257400	3.39E-04
	338400	4.04E-04
	511200	5.48E-04
	788400	6.80E-04
	3024000	1.27E-03
	6307200	1.59E-03
	7948800	1.64E-03

45C-I	76500	6.45E-05
	171000	1.27E-04
	257400	1.62E-04
	338400	1.82E-04
	511200	2.56E-04
	788400	3.50E-04
	3024000	7.16E-04
	6307200	1.02E-03
	7948800	1.03E-03

46C-II	76500	4.24E-05
	171000	8.44E-05
	257400	1.12E-04
	338400	1.06E-04
	511200	1.49E-04
	788400	1.84E-04
	3024000	4.22E-04
	6307200	4.95E-04
	7948800	5.99E-04

47C-III	76500	1.91E-05
	171000	5.88E-05
	257220	7.92E-05
	339300	7.74E-05
	514800	1.00E-04
	788400	1.27E-04
	3024000	1.79E-04
	6307200	2.74E-04
	7948800	2.95E-04

48C-IV	76500	2.48E-05
	171000	4.84E-05

	257220	4.64E-05
	339300	4.32E-05
	514800	6.38E-05
	788400	5.92E-05
	3024000	1.60E-04
	6307200	2.53E-04
	7948800	2.52E-04
49C-V	171000	3.10E-05
	257220	5.23E-05
	339300	5.12E-05
	514800	6.72E-05
	788400	7.68E-05
	3024000	1.51E-04
	6307200	2.54E-04
	7948800	2.54E-04
50A-0	110700	1.84E-04
	197100	1.76E-04
	278100	2.34E-04
	453600	3.09E-04
	728100	4.02E-04
	801000	4.08E-04
	2937600	8.15E-04
	6220800	1.13E-03
	7862400	1.12E-03
51A-I	110700	8.10E-05
	197100	7.94E-05
	278100	1.05E-04
	453600	1.25E-04
	728100	1.72E-04
	801000	1.75E-04
	2937600	4.33E-04
	6220800	6.76E-04
	7862400	6.98E-04
52A-II	110700	7.56E-05
	197100	7.90E-05
	278100	5.90E-05
	453600	6.66E-05
	728100	1.13E-04
	801000	1.04E-04

	2937600	2.91E-04
	6220800	4.43E-04
	7862400	4.73E-04
53A-III	110700	3.55E-05
	197100	5.06E-05
	278100	6.79E-05
	453600	9.25E-05
	728100	1.18E-04
	801000	1.13E-04
	2937600	2.58E-04
	6220800	4.00E-04
	7862400	4.27E-04
54A-IV	110700	5.55E-05
	197100	7.27E-05
	278100	4.63E-05
	453600	3.80E-05
	728100	8.20E-05
	801000	9.30E-05
	2937600	3.04E-04
	6220800	4.74E-04
	7862400	4.79E-04
55A-V	110700	1.19E-05
	197100	3.22E-05
	278100	3.93E-05
	453600	6.42E-05
	728100	1.13E-04
	801000	1.17E-04
	2937600	2.77E-04
	6220800	4.65E-04
	7862400	4.73E-04
56C-0	0	5.48E-05
	105588	4.35E-05
	171900	6.80E-05
	257400	5.29E-05
	343800	5.90E-05
	430200	6.60E-05
	520200	7.11E-05
57C-I	0	1.10E-04

	105588	1.80E-04
	171900	1.98E-04
	257400	2.07E-04
	343800	2.04E-04
	430200	2.04E-04
	520200	2.25E-04
58C-II	0	6.25E-05
	105876	1.13E-04
	172188	1.43E-04
	257400	1.43E-04
	343800	1.33E-04
	430200	1.35E-04
	520200	1.43E-04
59C-III	0	5.28E-05
	105876	7.28E-05
	172188	9.50E-05
	257400	1.14E-04
	343800	1.17E-04
	430200	1.16E-04
	520200	1.34E-04
64C-0	0	1.88E-05
	7200	1.67E-04
	10800	2.34E-04
	14400	3.59E-04
	18000	4.16E-04
	21600	4.58E-04
	25200	5.07E-04
	43200	6.44E-04
	86400	9.74E-04
	172800	1.33E-03
	432000	2.16E-03
	1036800	3.26E-03
	1210500	3.50E-03
	1384776	3.73E-03
	1903176	4.04E-03
	3821400	3.72E-03
	7818588	3.69E-03
65C-I	0	-2.07E-05
	5400	2.51E-07

9000	1.00E-04
12600	1.66E-04
16200	1.90E-04
19800	2.17E-04
41400	2.86E-04
84600	4.22E-04
171000	6.21E-04
430200	1.12E-03
1035000	1.82E-03
1208700	1.95E-03
1383588	2.05E-03
1901988	2.42E-03
3819600	2.47E-03
7818588	3.30E-03

66C-II	0	-4.02E-05
	5400	-4.41E-06
	9000	4.11E-05
	12600	8.32E-05
	16200	1.37E-04
	19800	1.36E-04
	23400	1.45E-04
	41400	1.78E-04
	84600	2.81E-04
	171000	3.62E-04
	430200	6.19E-04
	1035000	1.05E-03
	1208700	1.05E-03
	1383588	1.16E-03
	1901988	1.43E-03
	3819600	1.62E-03
	7818588	1.87E-03

67C-III	0	-1.76E-06
	4788	4.76E-06
	8388	2.95E-05
	11988	5.93E-05
	15588	8.00E-05
	19188	9.60E-05
	22788	1.16E-04
	40788	1.46E-04
	83988	2.56E-04
	170388	3.47E-04

429588	5.17E-04
1034388	7.45E-04
1208376	6.68E-04
1382688	7.41E-04
1900800	8.75E-04
3818988	9.64E-04
7818588	1.10E-03

68C-IV	0	-1.98E-06
	4788	2.65E-06
	8388	1.18E-05
	11988	2.69E-05
	15588	3.95E-05
	19188	5.06E-05
	22788	5.85E-05
	40788	8.05E-05
	83988	1.62E-04
	170388	2.95E-04
	429588	5.05E-04
	1034388	7.79E-04
	1208376	7.11E-04
	1382688	7.95E-04
	1900800	8.98E-04
	3818988	8.45E-04
	7818588	9.90E-04

69C-V	0	-1.89E-06
	4788	1.33E-05
	8388	1.62E-05
	11988	3.24E-05
	15588	3.76E-05
	19188	5.51E-05
	22788	8.95E-05
	40788	8.60E-05
	83988	1.58E-04
	170388	2.72E-04
	429588	4.92E-04
	1034388	6.80E-04
	1208376	7.04E-04
	1382400	7.80E-04
	1900800	9.08E-04
	3819600	8.69E-04
	7818588	9.23E-04