

Solution and concentration		Solution density	Porous media (graded sand from US silica sand)	Pore water velocity	Average measured finger diameter	Scaling of average measured finger diameter with the solution density relative to pore water	Scaling of average measured finger diameter with the solution gas–liquid interface tension relative to pore water	Scaling of average measured finger diameter with the solution density and gas–liquid interface tension relative to pore water	Scaling of average measured finger diameter with the solution $(\cos\theta)^{1/2}$ relative to pore water
		(g cm ⁻³)		(cm min ⁻¹)	(cm)	(cm)	(cm)	(cm)	(cm)
NaCl + HSN		0.9976	ASTM C778	0.22	9.20	9.20	9.20	9.20	9.20
Citrate	0.1 mg L ⁻¹	0.9993	ASTM C778	0.22	6.60	6.59	6.17	6.16	7.84
	500 mg L ⁻¹	0.9968	ASTM C778	0.22	7.90	7.91	7.68	7.68	10.04
Oxalate	0.1 mg L ⁻¹	0.9972	ASTM C778	0.22	8.40	8.40	8.10	8.11	9.72
	500 mg L ⁻¹	1.0028	ASTM C778	0.22	7.10	7.06	6.71	6.68	8.91
Tannic acid	0.1 mg L ⁻¹	0.9985	ASTM C778	0.22	10.20	10.19	9.79	9.78	12.16
	500 mg L ⁻¹	1.0002	ASTM C778	0.22	7.60	7.58	7.10	7.08	8.84
Organics (SRNOM)	0.1 mg L ⁻¹	0.9955	ASTM C778	0.22	7.50	7.52	7.04	7.05	7.87
	500 mg L ⁻¹	0.9983	ASTM C778	0.22	6.00	6.00	5.81	5.81	7.69
Average					7.83	7.83	7.51	7.51	9.14
CV					1.29	1.30	1.33	1.33	1.41