

Cell index	Void fraction [%]	Mean eff. diffusivity [cm <sup>2</sup> /s]	Eff. diffusivity (1st eigenvalue) [cm <sup>2</sup> /s]	Eff. diffusivity (2nd eigenvalue) [cm <sup>2</sup> /s]	Eff. diffusivity (3rd eigenvalue) [cm <sup>2</sup> /s]
99	40.79	0.0255962	0.0242322	0.0253839	0.0271726
104	40.63	0.0264781	0.0246799	0.0268488	0.0279054
102	38.95	0.0249054	0.0224657	0.0255786	0.026672
10	38.79	0.0241256	0.0230781	0.024301	0.0249978
23	38.39	0.0235922	0.0223125	0.0238995	0.0245645
12	38.35	0.0242005	0.0222832	0.0242647	0.0260538
35	38.16	0.023982	0.0233458	0.0241843	0.0244158
0	38.01	0.0234936	0.0226708	0.0237674	0.0240427
90	37.96	0.0243348	0.0237388	0.0244945	0.0247711
57	37.81	0.0234079	0.0218558	0.0239537	0.0244141
5	37.73	0.0239558	0.0233944	0.0238352	0.0246377
120	37.45	0.023764	0.0225825	0.0235811	0.0251283
62	37.37	0.0240708	0.0231234	0.0239309	0.0251582
14	37.20	0.0226638	0.0211009	0.0232408	0.0236496
51	37.11	0.0230821	0.0221859	0.0231595	0.0239009
80	36.96	0.0231823	0.0217094	0.0231953	0.0246421
31	36.89	0.0225322	0.0216024	0.022336	0.0236582
2	36.86	0.0224837	0.0203884	0.0226126	0.0244503
70	36.84	0.0227479	0.0220148	0.0224991	0.0237297
40	36.82	0.0224577	0.020772	0.0230285	0.0235726
75	36.75	0.0231744	0.020853	0.023666	0.0250043
42	36.67	0.0219887	0.0214377	0.0217429	0.0227857
53	36.64	0.0232217	0.0219625	0.0231453	0.0245571
84	36.57	0.022345	0.0216595	0.0221858	0.0231898
13	36.55	0.0226065	0.0207998	0.0224877	0.0245321
18	36.53	0.0228995	0.0213528	0.0235946	0.0237512
107	36.52	0.0234678	0.0228604	0.0235463	0.0239967
39	36.49	0.0224198	0.0209736	0.0227983	0.0234874
45	36.48	0.0225257	0.0217358	0.0222209	0.0236205
113	36.48	0.0229508	0.0222992	0.0226965	0.0238565
19	36.34	0.0223809	0.0219936	0.0223828	0.0227662
91	36.20	0.0225282	0.0211034	0.0230844	0.0233968
16	36.08	0.0225724	0.0210006	0.0224837	0.024233
36	36.04	0.0220924	0.0215337	0.0216327	0.0231109
44	35.96	0.0219001	0.0207326	0.0216545	0.0233132
56	35.96	0.0222072	0.0212879	0.021647	0.0236866
34	35.94	0.0220841	0.0213702	0.0216061	0.0232759
1	35.89	0.02287	0.0213704	0.0232828	0.0239568
93	35.84	0.0223183	0.0217128	0.0222346	0.0230076
27	35.83	0.0216645	0.0208977	0.021973	0.0221229

Eff. diffusivity evec1 x	Eff. diffusivity evec1 y	Eff. diffusivity evec1 z	Eff. diffusivity evec2 x	Eff. diffusivity evec2 y	Eff. diffusivity evec2 z	Eff. diffusivity evec3 x	Eff. diffusivity evec3 y
-0.03	-0.37	0.93	0.27	-0.90	-0.35	-0.96	-0.24
-0.55	0.46	-0.70	-0.80	-0.04	0.60	-0.25	-0.89
-0.45	0.60	-0.66	-0.88	-0.40	0.24	-0.12	0.70
0.03	-0.57	-0.82	-0.84	0.43	-0.33	0.55	0.70
-0.46	0.89	-0.02	-0.43	-0.20	0.88	0.78	0.42
0.10	0.13	-0.99	0.56	0.81	0.17	-0.82	0.57
0.83	-0.47	-0.30	0.00	0.54	-0.84	-0.56	-0.70
0.60	0.39	-0.70	-0.79	0.41	-0.45	0.11	0.83
0.19	0.90	0.39	0.95	-0.26	0.14	0.23	0.35
-0.03	-0.73	-0.69	-0.47	0.61	-0.63	-0.88	-0.31
0.21	0.92	-0.32	-0.24	0.37	0.90	0.95	-0.11
-0.05	1.00	-0.08	-0.18	0.07	0.98	0.98	0.06
-0.86	-0.10	0.51	0.50	-0.43	0.75	0.14	0.90
0.17	0.04	-0.98	0.97	0.18	0.18	-0.19	0.98
0.64	0.65	-0.41	-0.59	0.76	0.28	0.49	0.06
-0.20	0.81	-0.55	-0.56	0.37	0.74	-0.80	-0.46
-0.17	-0.70	-0.69	-0.83	0.48	-0.29	-0.53	-0.53
-0.04	-0.87	-0.48	0.48	0.41	-0.78	-0.88	0.26
0.34	-0.89	-0.29	0.09	0.34	-0.94	0.93	0.30
0.32	0.84	0.44	0.06	-0.48	0.88	-0.95	0.25
0.05	-0.97	-0.25	-0.93	0.05	-0.35	0.35	0.25
0.24	0.89	0.39	0.18	0.36	-0.92	-0.95	0.29
0.04	0.45	0.89	0.19	-0.88	0.43	-0.98	-0.15
0.28	-0.25	0.93	-0.67	-0.74	0.00	-0.69	0.62
0.01	-0.25	0.97	0.75	-0.64	-0.17	0.66	0.73
-0.05	0.18	0.98	0.89	-0.43	0.12	-0.44	-0.88
-0.32	-0.76	-0.56	-0.91	0.08	0.42	-0.27	0.65
-0.52	0.72	-0.45	-0.85	-0.43	0.31	0.03	0.55
-0.32	0.94	0.09	-0.89	-0.26	-0.37	-0.33	-0.20
-0.79	0.20	0.58	-0.61	-0.38	-0.69	0.08	-0.90
0.30	0.95	-0.09	-0.90	0.32	0.31	0.32	-0.01
0.29	0.10	0.95	0.57	-0.82	-0.09	0.77	0.56
-0.20	-0.08	0.98	0.96	-0.21	0.18	0.19	0.97
-0.98	-0.07	0.20	0.20	-0.54	0.82	0.05	0.84
0.15	-0.78	0.60	-0.92	-0.33	-0.20	-0.35	0.53
-0.49	0.87	0.08	-0.10	-0.14	0.99	0.87	0.48
-0.02	-0.99	0.14	0.55	0.11	0.83	-0.84	0.09
0.14	0.46	0.88	0.91	-0.41	0.07	0.39	0.79
0.28	-0.37	0.89	0.71	-0.55	-0.45	-0.65	-0.75
-0.17	-0.41	-0.90	0.92	0.27	-0.30	-0.36	0.87



Effective Diffusivity: Tensor Visualization  
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Molecular diffusivity tensor

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Eff. diffusivity evec3 z	Convergence error x	Convergence error y	Convergence error z	Number of iterations x	Number of iterations y	Number of iterations z	Cell position x [vox]
-0.12	0.0000010	0.0000010	0.0000010	268	270	274	360
-0.39	0.0000010	0.0000010	0.0000010	257	244	260	360
0.71	0.0000009	0.0000010	0.0000010	260	260	262	200
-0.46	0.0000010	0.0000009	0.0000010	258	262	269	39
0.47	0.0000010	0.0000010	0.0000010	273	277	279	279
-0.01	0.0000010	0.0000010	0.0000009	265	270	266	200
-0.45	0.0000010	0.0000010	0.0000010	253	256	263	39
0.55	0.0000010	0.0000010	0.0000010	280	270	264	39
-0.91	0.0000010	0.0000010	0.0000010	261	264	260	39
0.36	0.0000009	0.0000010	0.0000010	271	276	275	200
0.30	0.0000010	0.0000009	0.0000009	258	257	259	39
0.18	0.0000010	0.0000010	0.0000010	263	262	259	39
0.42	0.0000010	0.0000010	0.0000010	255	254	255	200
0.01	0.0000010	0.0000010	0.0000010	276	275	272	360
0.87	0.0000010	0.0000010	0.0000010	275	273	271	119
-0.38	0.0000010	0.0000010	0.0000010	254	267	269	39
0.66	0.0000010	0.0000010	0.0000010	278	282	279	119
-0.40	0.0000010	0.0000010	0.0000010	280	287	277	200
0.20	0.0000010	0.0000010	0.0000010	277	277	277	39
0.20	0.0000009	0.0000010	0.0000010	275	277	271	39
-0.90	0.0000010	0.0000010	0.0000010	256	262	258	39
-0.07	0.0000009	0.0000010	0.0000009	280	266	273	200
0.13	0.0000010	0.0000010	0.0000010	249	259	277	279
0.37	0.0000010	0.0000009	0.0000010	269	279	279	360
0.18	0.0000010	0.0000010	0.0000010	267	262	263	279
0.14	0.0000010	0.0000010	0.0000010	283	266	271	279
-0.71	0.0000010	0.0000009	0.0000010	254	255	251	200
0.84	0.0000010	0.0000010	0.0000010	268	258	267	360
0.92	0.0000010	0.0000010	0.0000010	261	257	265	39
0.43	0.0000010	0.0000010	0.0000010	268	266	269	279
0.95	0.0000009	0.0000010	0.0000010	268	267	264	360
-0.29	0.0000010	0.0000009	0.0000010	246	265	260	119
0.12	0.0000010	0.0000010	0.0000010	266	259	265	119
0.54	0.0000010	0.0000010	0.0000010	270	270	281	119
0.77	0.0000009	0.0000010	0.0000009	266	268	270	360
0.15	0.0000010	0.0000010	0.0000010	271	262	257	119
0.54	0.0000010	0.0000009	0.0000009	276	283	282	360
-0.48	0.0000010	0.0000010	0.0000009	268	266	260	119
-0.11	0.0000009	0.0000009	0.0000010	271	264	266	279
-0.33	0.0000010	0.0000010	0.0000010	267	268	276	200

Cell position y [vox]	Cell position z [vox]	Status x	Status y	Status z	Description	Captures
360	279	Ok	Ok	Ok	n/a	0
39	360	Ok	Ok	Ok	n/a	0
39	360	Ok	Ok	Ok	n/a	0
200	40	Ok	Ok	Ok	n/a	0
360	40	Ok	Ok	Ok	n/a	0
200	40	Ok	Ok	Ok	n/a	0
200	120	Ok	Ok	Ok	n/a	0
39	40	Ok	Ok	Ok	n/a	0
279	279	Ok	Ok	Ok	n/a	0
119	199	Ok	Ok	Ok	n/a	0
119	40	Ok	Ok	Ok	n/a	0
360	360	Ok	Ok	Ok	n/a	0
200	199	Ok	Ok	Ok	n/a	0
200	40	Ok	Ok	Ok	n/a	0
39	199	Ok	Ok	Ok	n/a	0
119	279	Ok	Ok	Ok	n/a	0
119	120	Ok	Ok	Ok	n/a	0
39	40	Ok	Ok	Ok	n/a	0
360	199	Ok	Ok	Ok	n/a	0
279	120	Ok	Ok	Ok	n/a	0
39	279	Ok	Ok	Ok	n/a	0
279	120	Ok	Ok	Ok	n/a	0
39	199	Ok	Ok	Ok	n/a	0
119	279	Ok	Ok	Ok	n/a	0
200	40	Ok	Ok	Ok	n/a	0
279	40	Ok	Ok	Ok	n/a	0
119	360	Ok	Ok	Ok	n/a	0
200	120	Ok	Ok	Ok	n/a	0
360	120	Ok	Ok	Ok	n/a	0
200	360	Ok	Ok	Ok	n/a	0
279	40	Ok	Ok	Ok	n/a	0
279	279	Ok	Ok	Ok	n/a	0
279	40	Ok	Ok	Ok	n/a	0
200	120	Ok	Ok	Ok	n/a	0
279	120	Ok	Ok	Ok	n/a	0
119	199	Ok	Ok	Ok	n/a	0
119	120	Ok	Ok	Ok	n/a	0
39	40	Ok	Ok	Ok	n/a	0
279	279	Ok	Ok	Ok	n/a	0
39	120	Ok	Ok	Ok	n/a	0

EffectiveDiffusivity  Industrial Imaging Solutions	Effective Diffusivity: Tensor Visualization Analysis 1 of Volume 2				
	Molecular diffusivity tensor			2/11/2016 8:01:06 AM	

Cell index	Void fraction [%]	Mean eff. diffusivity [cm <sup>2</sup> /s]	Eff. diffusivity (1st eigenvalue) [cm <sup>2</sup> /s]	Eff. diffusivity (2nd eigenvalue) [cm <sup>2</sup> /s]	Eff. diffusivity (3rd eigenvalue) [cm <sup>2</sup> /s]
85	35.82	0.0223621	0.0217137	0.0224041	0.0229687
95	35.82	0.0220719	0.0214852	0.0220177	0.0227129
32	35.68	0.0224839	0.0212409	0.022597	0.0236138
29	35.65	0.0220036	0.0205238	0.0219571	0.02353
54	35.61	0.0218689	0.0212277	0.0219634	0.0224155
68	35.57	0.0214802	0.0207326	0.0215685	0.0221394
15	35.54	0.0214051	0.0210697	0.0214765	0.021669
50	35.46	0.0220949	0.0211786	0.0219699	0.0231363
73	35.45	0.0215141	0.0203813	0.0209866	0.0231742
22	35.42	0.0218741	0.0200169	0.0224758	0.0231296
24	35.38	0.0217561	0.021269	0.0217074	0.0222921
55	35.34	0.0216779	0.0209875	0.0214253	0.0226208
116	35.34	0.0222919	0.0214993	0.0225491	0.0228274
82	35.26	0.0216104	0.0207291	0.0214088	0.0226934
46	35.19	0.021664	0.0208012	0.0212469	0.0229439
17	35.09	0.0212511	0.0197074	0.0214376	0.0226081
79	35.09	0.0215691	0.0207486	0.0219521	0.0220065
58	35.04	0.0219057	0.0210588	0.0216753	0.022983
33	34.87	0.0211522	0.0203599	0.0209858	0.0221107
3	34.86	0.0215803	0.0206776	0.0214911	0.0225722
11	34.80	0.0217886	0.020903	0.0219881	0.0224747
43	34.79	0.0214153	0.0204588	0.0214971	0.0222901
123	34.73	0.021728	0.0206808	0.0220693	0.0224338
76	34.56	0.0212111	0.02025	0.0212869	0.0220963
59	34.52	0.0208124	0.0196727	0.0209881	0.0217765
108	34.43	0.0217421	0.0212638	0.0219213	0.0220413
100	34.40	0.0220468	0.0216817	0.0219576	0.022501
28	34.33	0.0213169	0.0209914	0.0210668	0.0218925
124	34.32	0.0216848	0.0205307	0.0215497	0.0229742
6	34.30	0.0212445	0.020633	0.0207562	0.0223442
52	34.25	0.020858	0.0197238	0.0205112	0.022339
47	34.24	0.0205538	0.0197359	0.0207772	0.0211485
61	34.23	0.0207367	0.0196591	0.0204996	0.0220512
66	34.18	0.0210721	0.0201131	0.0211216	0.0219815
87	34.15	0.0207252	0.0194108	0.0209288	0.0218362
110	34.13	0.0209349	0.0198214	0.0206655	0.0223177
101	34.07	0.0213317	0.0202432	0.0210944	0.0226574
74	33.98	0.0206426	0.0202456	0.0206437	0.0210386
48	33.95	0.0210422	0.0203171	0.0210494	0.0217601
94	33.89	0.0208524	0.0193069	0.0202062	0.0230441

Eff. diffusivity evec1 x	Eff. diffusivity evec1 y	Eff. diffusivity evec1 z	Eff. diffusivity evec2 x	Eff. diffusivity evec2 y	Eff. diffusivity evec2 z	Eff. diffusivity evec3 x	Eff. diffusivity evec3 y
-0.10	0.56	-0.82	-0.85	-0.48	-0.22	-0.52	0.67
-0.65	0.58	-0.48	0.68	0.73	-0.03	-0.34	0.35
0.63	-0.59	-0.51	-0.66	-0.07	-0.75	-0.41	-0.80
0.72	-0.50	0.48	-0.40	-0.87	-0.30	-0.57	-0.03
-0.32	-0.52	0.79	-0.73	-0.40	-0.55	-0.61	0.75
-0.67	-0.39	-0.63	0.25	0.69	-0.68	-0.70	0.62
0.30	0.13	-0.95	0.87	0.37	0.32	-0.39	0.92
-0.71	0.23	0.66	0.03	0.96	-0.29	0.70	0.19
0.10	0.99	-0.13	-0.73	0.16	0.66	0.68	0.03
-0.29	0.92	-0.27	-0.91	-0.19	0.36	0.28	0.35
-0.13	0.77	0.62	0.02	-0.62	0.78	-0.99	-0.11
-0.83	0.18	-0.52	0.44	-0.35	-0.82	-0.33	-0.92
-0.94	0.31	0.11	0.33	0.92	0.22	-0.03	0.25
0.21	-0.02	-0.98	0.51	-0.85	0.13	0.83	0.52
-0.24	-0.27	-0.93	0.33	0.88	-0.34	-0.91	0.39
-0.33	0.32	0.89	0.34	-0.84	0.43	-0.88	-0.44
-0.10	-0.99	0.11	-0.08	-0.10	-0.99	-0.99	0.11
-0.42	0.83	0.37	0.90	0.44	0.02	0.14	-0.34
0.33	-0.71	0.62	-0.95	-0.24	0.22	0.00	0.66
-0.19	-0.51	0.84	0.12	-0.86	-0.50	-0.97	-0.01
0.68	-0.67	-0.32	-0.57	-0.74	0.35	-0.47	-0.05
0.02	-0.01	-1.00	-0.98	0.19	-0.02	-0.19	-0.98
-0.79	0.60	-0.12	-0.20	-0.43	-0.88	0.58	0.67
-0.87	0.41	-0.29	0.41	0.91	0.06	-0.28	0.07
-0.75	-0.25	-0.62	0.65	-0.44	-0.62	0.12	0.86
0.13	0.93	-0.34	-0.87	0.27	0.42	0.48	0.24
0.29	0.35	0.89	0.92	-0.36	-0.16	-0.26	-0.87
-0.02	0.83	0.56	0.91	0.25	-0.34	0.42	-0.50
0.17	-0.50	0.85	-0.64	-0.71	-0.29	-0.75	0.49
0.63	-0.72	0.27	-0.16	0.22	0.96	-0.76	-0.65
-0.93	-0.36	0.10	0.34	-0.92	-0.18	0.16	-0.13
-0.03	-1.00	0.03	0.95	-0.02	0.31	-0.30	0.04
-0.82	-0.49	0.31	0.07	-0.62	-0.78	0.57	-0.62
0.19	0.29	0.94	0.98	0.01	-0.20	-0.07	0.96
0.13	0.85	0.51	-0.19	-0.49	0.85	-0.97	0.21
0.59	0.27	0.77	-0.67	-0.37	0.64	-0.45	0.89
-0.85	0.46	0.24	-0.45	-0.44	-0.77	-0.25	-0.77
-0.86	0.49	-0.13	-0.47	-0.68	0.56	0.18	0.54
-0.95	-0.32	-0.07	0.14	-0.18	-0.98	0.30	-0.93
0.63	0.25	-0.74	-0.25	-0.83	-0.50	0.74	-0.50

Eff. diffusivity evec3 z	Convergence error x	Convergence error y	Convergence error z	Number of iterations x	Number of iterations y	Number of iterations z	Cell position x [vox]
0.52	0.0000010	0.0000010	0.0000009	275	271	273	39
0.88	0.0000010	0.0000010	0.0000010	274	274	268	39
0.44	0.0000010	0.0000009	0.0000010	263	261	261	200
0.82	0.0000010	0.0000010	0.0000010	270	282	275	360
0.25	0.0000010	0.0000010	0.0000010	270	268	274	360
0.37	0.0000010	0.0000010	0.0000009	279	286	280	279
0.01	0.0000010	0.0000010	0.0000010	272	286	277	39
0.69	0.0000010	0.0000010	0.0000010	269	259	261	39
0.74	0.0000010	0.0000010	0.0000010	272	278	270	279
0.89	0.0000010	0.0000010	0.0000010	265	278	280	200
-0.07	0.0000010	0.0000010	0.0000009	284	282	280	360
0.21	0.0000010	0.0000009	0.0000010	269	271	284	39
-0.97	0.0000009	0.0000010	0.0000010	262	254	272	119
0.17	0.0000010	0.0000009	0.0000010	270	270	272	200
0.12	0.0000010	0.0000010	0.0000010	279	277	273	119
-0.17	0.0000009	0.0000010	0.0000010	272	274	280	200
0.07	0.0000010	0.0000010	0.0000010	264	258	270	360
0.93	0.0000010	0.0000010	0.0000010	274	265	270	279
0.75	0.0000010	0.0000010	0.0000010	254	271	262	279
-0.22	0.0000010	0.0000010	0.0000010	272	265	276	279
-0.88	0.0000009	0.0000010	0.0000010	263	257	271	119
0.01	0.0000010	0.0000010	0.0000010	278	274	273	279
-0.46	0.0000010	0.0000010	0.0000010	265	264	265	279
0.96	0.0000010	0.0000010	0.0000010	270	267	272	119
-0.49	0.0000009	0.0000010	0.0000010	259	271	268	360
0.84	0.0000010	0.0000010	0.0000010	261	255	265	279
0.42	0.0000009	0.0000010	0.0000010	252	258	266	39
0.76	0.0000010	0.0000010	0.0000010	269	264	275	279
0.44	0.0000010	0.0000010	0.0000010	260	266	265	360
0.02	0.0000010	0.0000010	0.0000010	257	260	268	119
0.98	0.0000010	0.0000009	0.0000010	281	259	278	200
0.95	0.0000010	0.0000010	0.0000009	273	279	273	200
0.54	0.0000009	0.0000010	0.0000010	273	275	273	119
-0.28	0.0000010	0.0000010	0.0000010	263	266	265	119
-0.09	0.0000010	0.0000010	0.0000010	266	263	268	200
0.04	0.0000010	0.0000010	0.0000010	268	268	272	39
0.59	0.0000010	0.0000010	0.0000010	259	248	270	119
0.82	0.0000010	0.0000009	0.0000010	261	270	271	360
0.21	0.0000010	0.0000010	0.0000010	273	278	280	279
0.46	0.0000010	0.0000010	0.0000009	271	273	273	360



Effective Diffusivity: Tensor Visualization  
Analysis 1 of Volume 2

Molecular diffusivity tensor

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Cell position y [vox]	Cell position z [vox]	Status x	Status y	Status z	Description	Captures
200	279	Ok	Ok	Ok	n/a	0
360	279	Ok	Ok	Ok	n/a	0
119	120	Ok	Ok	Ok	n/a	0
39	120	Ok	Ok	Ok	n/a	0
39	199	Ok	Ok	Ok	n/a	0
279	199	Ok	Ok	Ok	n/a	0
279	40	Ok	Ok	Ok	n/a	0
39	199	Ok	Ok	Ok	n/a	0
360	199	Ok	Ok	Ok	n/a	0
360	40	Ok	Ok	Ok	n/a	0
360	40	Ok	Ok	Ok	n/a	0
119	199	Ok	Ok	Ok	n/a	0
279	360	Ok	Ok	Ok	n/a	0
119	279	Ok	Ok	Ok	n/a	0
360	120	Ok	Ok	Ok	n/a	0
279	40	Ok	Ok	Ok	n/a	0
39	279	Ok	Ok	Ok	n/a	0
119	199	Ok	Ok	Ok	n/a	0
119	120	Ok	Ok	Ok	n/a	0
39	40	Ok	Ok	Ok	n/a	0
200	40	Ok	Ok	Ok	n/a	0
279	120	Ok	Ok	Ok	n/a	0
360	360	Ok	Ok	Ok	n/a	0
39	279	Ok	Ok	Ok	n/a	0
119	199	Ok	Ok	Ok	n/a	0
119	360	Ok	Ok	Ok	n/a	0
39	360	Ok	Ok	Ok	n/a	0
39	120	Ok	Ok	Ok	n/a	0
360	360	Ok	Ok	Ok	n/a	0
119	40	Ok	Ok	Ok	n/a	0
39	199	Ok	Ok	Ok	n/a	0
360	120	Ok	Ok	Ok	n/a	0
200	199	Ok	Ok	Ok	n/a	0
279	199	Ok	Ok	Ok	n/a	0
200	279	Ok	Ok	Ok	n/a	0
200	360	Ok	Ok	Ok	n/a	0
39	360	Ok	Ok	Ok	n/a	0
360	199	Ok	Ok	Ok	n/a	0
360	120	Ok	Ok	Ok	n/a	0
279	279	Ok	Ok	Ok	n/a	0

EffectiveDiffusivity  Industrial Imaging Solutions	Effective Diffusivity: Tensor Visualization Analysis 1 of Volume 2				
	Molecular diffusivity tensor			2/11/2016 8:01:06 AM	

Cell index	Void fraction [%]	Mean eff. diffusivity [cm <sup>2</sup> /s]	Eff. diffusivity (1st eigenvalue) [cm <sup>2</sup> /s]	Eff. diffusivity (2nd eigenvalue) [cm <sup>2</sup> /s]	Eff. diffusivity (3rd eigenvalue) [cm <sup>2</sup> /s]
117	33.89	0.0215228	0.0204042	0.0217183	0.0224459
60	33.86	0.0208197	0.0198711	0.0207511	0.021837
106	33.79	0.0212579	0.0199113	0.0217359	0.0221266
30	33.69	0.0205643	0.0199012	0.0203419	0.0214498
20	33.60	0.0206983	0.0198869	0.0202656	0.0219423
71	33.52	0.0204535	0.0197892	0.0202438	0.0213274
25	33.51	0.0207814	0.0195976	0.0208193	0.0219274
38	33.49	0.0205706	0.0195395	0.0208173	0.0213549
49	33.49	0.0207755	0.0201193	0.0207957	0.0214116
109	33.41	0.0208115	0.01944	0.0214337	0.0215606
96	33.38	0.0202882	0.0189102	0.0203245	0.0216298
114	33.37	0.0204164	0.0190502	0.0203621	0.0218368
118	33.33	0.0210837	0.0210117	0.0210541	0.0211853
37	33.30	0.0203588	0.019773	0.0200835	0.0212199
69	33.24	0.019999	0.0184996	0.0203195	0.0211778
83	33.19	0.0209302	0.0189961	0.0211317	0.0226628
7	33.18	0.0205296	0.0197355	0.0204527	0.0214005
67	33.08	0.0198467	0.0179464	0.0196771	0.0219166
41	33.00	0.0196434	0.0177402	0.0201863	0.0210037
9	32.86	0.0195578	0.0189718	0.0194608	0.0202407
105	32.83	0.0202362	0.0193614	0.0204278	0.0209193
98	32.65	0.0199009	0.01901	0.0198738	0.0208187
115	32.62	0.0204791	0.0191224	0.0202231	0.0220919
92	32.60	0.0201232	0.0198155	0.0200163	0.0205377
8	32.59	0.0200214	0.0193015	0.0199222	0.0208404
63	32.56	0.0198472	0.0186527	0.0201601	0.0207287
112	32.49	0.0203259	0.0189617	0.0206241	0.021392
88	32.29	0.0195472	0.0185316	0.0198707	0.0202393
26	32.20	0.0194142	0.0184715	0.0193203	0.0204508
119	32.12	0.0204278	0.0192481	0.0202098	0.0218255
72	32.11	0.0193325	0.018686	0.0192129	0.0200987
4	31.98	0.0197506	0.0187188	0.0198702	0.0206626
81	31.93	0.0190407	0.0181736	0.0191097	0.0198388
64	31.82	0.019083	0.018211	0.0191506	0.0198873
78	31.51	0.0191199	0.0184343	0.0188499	0.0200756
21	31.48	0.0195763	0.0187599	0.0192478	0.0207212
121	31.40	0.0189817	0.0179951	0.0185748	0.0203751
122	31.22	0.0191027	0.018312	0.0192251	0.019771
97	31.17	0.0187326	0.0173967	0.0188712	0.0199299
65	30.73	0.0188939	0.0183702	0.0190366	0.0192747

Eff. diffusivity evec1 x	Eff. diffusivity evec1 y	Eff. diffusivity evec1 z	Eff. diffusivity evec2 x	Eff. diffusivity evec2 y	Eff. diffusivity evec2 z	Eff. diffusivity evec3 x	Eff. diffusivity evec3 y
-0.93	-0.36	0.02	0.16	-0.37	0.91	-0.32	0.86
-0.44	-0.20	0.87	-0.83	0.47	-0.31	0.35	0.86
0.16	-0.60	-0.78	-0.85	0.32	-0.42	0.50	0.73
-0.87	-0.47	0.16	-0.07	-0.20	-0.98	0.49	-0.86
0.54	-0.37	0.76	-0.22	-0.93	-0.30	-0.81	0.00
-0.70	-0.18	0.69	-0.58	-0.41	-0.70	0.41	-0.89
-0.32	0.15	-0.94	-0.47	-0.88	0.01	-0.83	0.44
0.24	0.43	-0.87	0.93	0.15	0.34	-0.28	0.89
-0.87	-0.22	-0.43	-0.24	0.97	-0.02	-0.43	-0.08
1.00	0.05	0.03	0.02	0.27	-0.96	0.06	-0.96
-0.19	0.57	-0.80	-0.72	-0.63	-0.27	-0.66	0.53
-0.51	0.86	-0.03	-0.82	-0.50	-0.30	-0.27	-0.13
0.51	0.59	-0.62	0.57	-0.78	-0.26	0.64	0.22
-0.14	-0.69	0.71	-0.79	-0.36	-0.49	-0.59	0.63
0.36	-0.90	0.26	0.93	0.32	-0.18	0.07	0.31
-0.20	0.28	0.94	0.42	-0.84	0.34	-0.88	-0.46
-0.43	0.56	-0.71	-0.06	0.76	0.65	-0.90	-0.32
0.65	0.01	0.76	0.73	0.26	-0.63	0.20	-0.97
-0.22	0.30	0.93	0.93	0.35	0.11	-0.29	0.89
-0.07	0.34	0.94	1.00	-0.04	0.09	-0.06	-0.94
-0.47	-0.88	-0.07	0.34	-0.11	-0.93	0.81	-0.47
-0.40	0.57	0.72	0.79	0.61	-0.05	0.47	-0.54
0.09	0.92	0.37	1.00	-0.08	-0.04	0.01	-0.37
-0.72	-0.64	0.25	0.32	0.00	0.95	-0.61	0.76
-0.06	1.00	0.02	-0.33	-0.04	0.94	0.94	0.05
-0.58	0.63	-0.53	0.22	0.74	0.64	-0.79	-0.25
0.00	-0.98	-0.18	-0.35	0.16	-0.92	-0.94	-0.06
-0.60	-0.04	-0.80	0.80	0.02	-0.60	-0.04	1.00
0.21	-0.47	-0.85	-0.49	-0.81	0.33	0.85	-0.35
-0.84	-0.38	0.39	-0.32	0.92	0.23	0.44	-0.07
-0.38	0.93	-0.04	-0.86	-0.33	0.38	0.34	0.17
0.85	0.08	-0.52	-0.43	-0.46	-0.78	0.30	-0.88
0.34	-0.13	-0.93	-0.39	-0.92	-0.02	-0.86	0.37
0.52	-0.67	0.54	0.74	0.67	0.12	-0.44	0.33
-0.67	0.74	-0.03	-0.06	-0.09	-0.99	-0.74	-0.67
-0.04	-1.00	-0.05	0.44	0.03	-0.90	0.89	-0.06
-0.58	0.81	-0.06	0.81	0.58	-0.04	0.00	0.07
-0.77	0.17	-0.61	-0.20	0.85	0.49	0.60	0.50
-0.13	0.92	-0.37	-0.93	0.02	0.36	0.34	0.39
-0.61	0.63	-0.48	-0.40	-0.77	-0.49	-0.68	-0.11

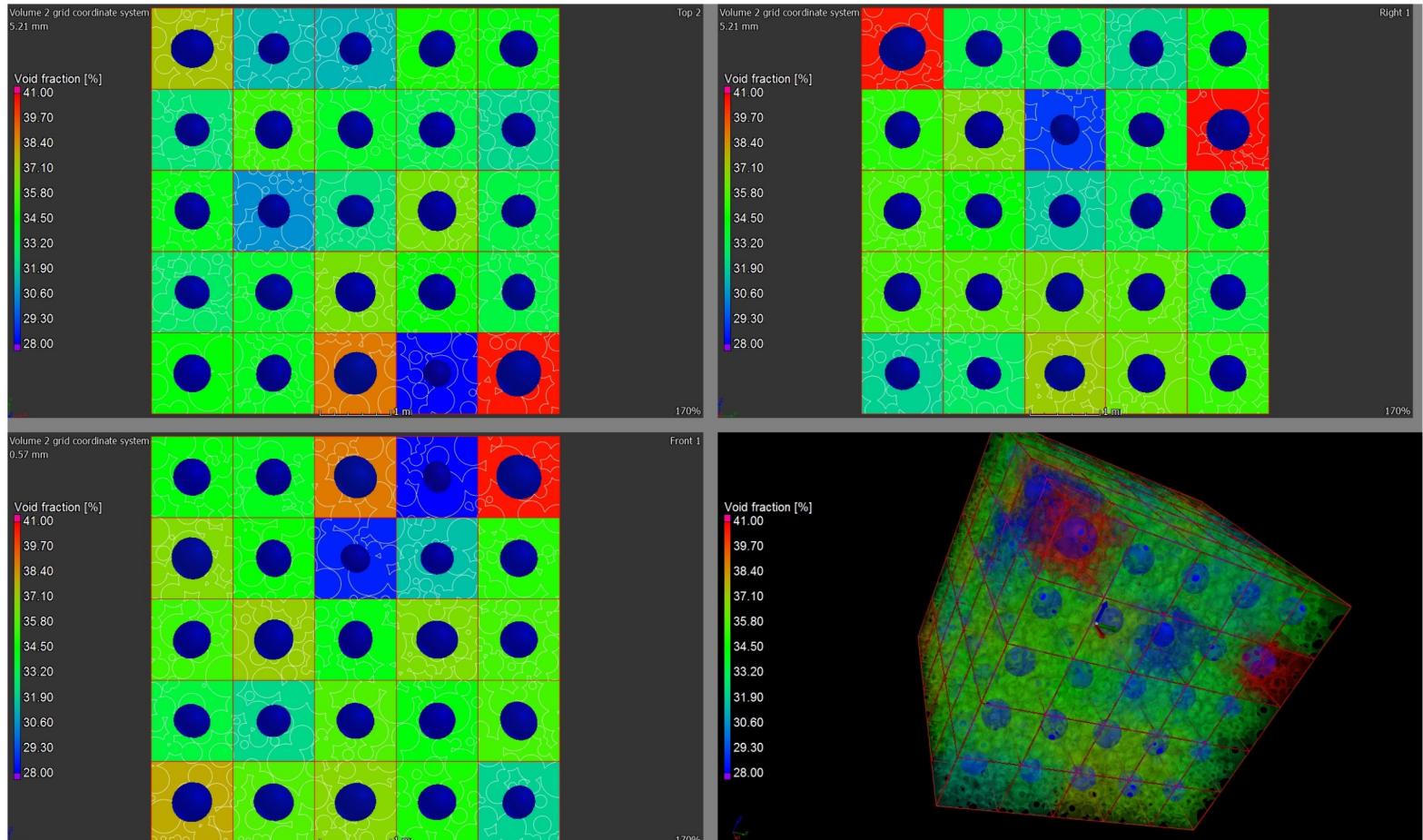


Effective Diffusivity: Tensor Visualization  
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Molecular diffusivity tensor

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Tensor Visualization



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Eff. diffusivity evec3 z	Convergence error x	Convergence error y	Convergence error z	Number of iterations x	Number of iterations y	Number of iterations z	Cell position x [vox]
0.41	0.0000009	0.0000009	0.0000010	257	254	258	200
0.38	0.0000010	0.0000010	0.0000010	270	270	280	39
-0.46	0.0000010	0.0000010	0.0000010	262	269	261	119
0.14	0.0000010	0.0000010	0.0000009	275	271	276	39
0.58	0.0000010	0.0000010	0.0000010	288	277	288	39
0.19	0.0000010	0.0000010	0.0000010	273	279	266	119
0.35	0.0000010	0.0000010	0.0000010	268	260	275	39
0.36	0.0000010	0.0000010	0.0000010	258	272	269	279
0.90	0.0000010	0.0000010	0.0000010	265	254	266	360
-0.27	0.0000009	0.0000010	0.0000010	266	255	250	360
0.54	0.0000010	0.0000009	0.0000009	269	270	278	119
0.95	0.0000010	0.0000010	0.0000010	256	262	251	360
0.73	0.0000010	0.0000010	0.0000010	265	261	267	279
0.49	0.0000010	0.0000010	0.0000010	264	260	264	200
0.95	0.0000010	0.0000010	0.0000010	262	269	269	360
-0.05	0.0000010	0.0000010	0.0000010	255	261	264	279
0.29	0.0000010	0.0000010	0.0000010	262	264	266	200
-0.16	0.0000010	0.0000010	0.0000010	272	267	276	200
-0.35	0.0000009	0.0000010	0.0000010	251	244	266	119
0.33	0.0000010	0.0000010	0.0000010	280	277	293	360
0.35	0.0000010	0.0000010	0.0000010	271	256	270	39
0.70	0.0000010	0.0000010	0.0000009	268	278	259	279
0.93	0.0000010	0.0000010	0.0000009	261	260	273	39
0.20	0.0000010	0.0000009	0.0000010	269	262	262	200
0.33	0.0000010	0.0000010	0.0000010	266	271	270	279
0.56	0.0000010	0.0000010	0.0000010	268	268	263	279
0.34	0.0000010	0.0000010	0.0000010	262	257	259	200
-0.02	0.0000010	0.0000010	0.0000010	279	270	265	279
0.40	0.0000009	0.0000009	0.0000010	275	281	275	119
0.89	0.0000010	0.0000009	0.0000009	262	263	262	360
0.93	0.0000010	0.0000010	0.0000010	272	276	273	200
0.36	0.0000010	0.0000010	0.0000010	266	264	267	360
-0.36	0.0000010	0.0000009	0.0000010	272	276	265	119
0.84	0.0000010	0.0000010	0.0000009	265	272	270	360
0.10	0.0000010	0.0000010	0.0000010	269	272	280	279
0.44	0.0000010	0.0000010	0.0000010	265	243	272	119
1.00	0.0000010	0.0000010	0.0000010	259	258	255	119
-0.62	0.0000010	0.0000010	0.0000010	263	259	268	200
0.86	0.0000010	0.0000010	0.0000009	269	273	267	200
0.72	0.0000010	0.0000010	0.0000010	260	259	258	39

Cell position y [vox]	Cell position z [vox]	Status x	Status y	Status z	Description	Captures
279	360	Ok	Ok	Ok	n/a	0
200	199	Ok	Ok	Ok	n/a	0
119	360	Ok	Ok	Ok	n/a	0
119	120	Ok	Ok	Ok	n/a	0
360	40	Ok	Ok	Ok	n/a	0
360	199	Ok	Ok	Ok	n/a	0
39	120	Ok	Ok	Ok	n/a	0
200	120	Ok	Ok	Ok	n/a	0
360	120	Ok	Ok	Ok	n/a	0
119	360	Ok	Ok	Ok	n/a	0
360	279	Ok	Ok	Ok	n/a	0
200	360	Ok	Ok	Ok	n/a	0
279	360	Ok	Ok	Ok	n/a	0
200	120	Ok	Ok	Ok	n/a	0
279	199	Ok	Ok	Ok	n/a	0
119	279	Ok	Ok	Ok	n/a	0
119	40	Ok	Ok	Ok	n/a	0
279	199	Ok	Ok	Ok	n/a	0
279	120	Ok	Ok	Ok	n/a	0
119	40	Ok	Ok	Ok	n/a	0
119	360	Ok	Ok	Ok	n/a	0
360	279	Ok	Ok	Ok	n/a	0
279	360	Ok	Ok	Ok	n/a	0
279	279	Ok	Ok	Ok	n/a	0
119	40	Ok	Ok	Ok	n/a	0
200	199	Ok	Ok	Ok	n/a	0
200	360	Ok	Ok	Ok	n/a	0
200	279	Ok	Ok	Ok	n/a	0
39	120	Ok	Ok	Ok	n/a	0
279	360	Ok	Ok	Ok	n/a	0
360	199	Ok	Ok	Ok	n/a	0
39	40	Ok	Ok	Ok	n/a	0
119	279	Ok	Ok	Ok	n/a	0
200	199	Ok	Ok	Ok	n/a	0
39	279	Ok	Ok	Ok	n/a	0
360	40	Ok	Ok	Ok	n/a	0
360	360	Ok	Ok	Ok	n/a	0
360	360	Ok	Ok	Ok	n/a	0
360	279	Ok	Ok	Ok	n/a	0
279	199	Ok	Ok	Ok	n/a	0

EffectiveDiffusivity  Industrial Imaging Solutions	Effective Diffusivity: Tensor Visualization Analysis 1 of Volume 2				
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Cell index	Void fraction [%]	Mean eff. diffusivity [cm <sup>2</sup> /s]	Eff. diffusivity (1st eigenvalue) [cm <sup>2</sup> /s]	Eff. diffusivity (2nd eigenvalue) [cm <sup>2</sup> /s]	Eff. diffusivity (3rd eigenvalue) [cm <sup>2</sup> /s]
111	30.48	0.0188664	0.0176976	0.0188906	0.0200109
86	30.39	0.0183509	0.0177195	0.0179856	0.0193475
89	28.91	0.017791	0.0164626	0.018178	0.0187324
77	28.52	0.0168017	0.0159373	0.0165832	0.0178845
103	28.03	0.017065	0.016032	0.0164461	0.0187168

Eff. diffusivity evec1 x	Eff. diffusivity evec1 y	Eff. diffusivity evec1 z	Eff. diffusivity evec2 x	Eff. diffusivity evec2 y	Eff. diffusivity evec2 z	Eff. diffusivity evec3 x	Eff. diffusivity evec3 y
-0.14	-0.28	0.95	0.99	0.03	0.15	-0.07	0.96
0.15	-0.33	-0.93	0.15	-0.92	0.35	0.98	0.20
-0.47	-0.81	-0.35	0.59	0.01	-0.81	-0.66	0.58
0.39	-0.88	0.28	0.43	0.44	0.79	-0.82	-0.19
0.44	0.88	0.18	0.88	-0.47	0.12	-0.19	-0.10

Eff. diffusivity evec3 z	Convergence error x	Convergence error y	Convergence error z	Number of iterations x	Number of iterations y	Number of iterations z	Cell position x [vox]
0.28	0.0000010	0.0000010	0.0000010	266	273	271	119
0.08	0.0000010	0.0000010	0.0000010	261	263	268	119
-0.47	0.0000010	0.0000010	0.0000010	260	261	259	360
0.54	0.0000010	0.0000010	0.0000009	265	272	269	200
0.98	0.0000010	0.0000009	0.0000010	267	274	277	279

