

# AVERAGING TIMES

Unique Audit Number:

157



Study Folder: TOP EVENT 10-14

PHAST v6.00



## TOP EVENT 10-14



### Methanol spill out

Disk rupture opening

Base Case

Data



Weather:

Category 2/F

Speed:

2,00 m/s

Stability:

F

TOP EVENT 10-14\Methanol spill out\Disk rupture opening

Material: METHANOL

### Centerline Molar Concentrations for Multiple Averaging Times

ppm

Averaging time corrected concentrations

Note that this is the only report that reflects duration adjusted / corrected concentrations

Distance	Flammable	Toxic	ERPG	IDLH	STEL	User
Downwind	18.8					
m	s	s	s	s	s	s

Segment Number:

1

0,00	1.000.000,00
0,03	1.000.000,00
0,04	944.977,69
0,07	789.820,37
0,13	622.884,26
0,19	517.834,51
0,31	384.816,70
0,58	245.803,26
1,16	130.935,87
1,80	83.369,86
3,17	43.663,09
6,08	19.362,73
9,12	11.679,41
15,33	6.037,89
21,62	3.888,50
34,28	2.120,43
47,01	1.390,88
59,75	1.027,34
72,51	838,08
85,28	731,70
98,04	671,18
110,80	629,57
123,57	592,99
149,10	529,54
200,15	431,39
299,92	306,76
399,75	229,48
499,63	178,48
599,54	143,12
699,47	117,60
799,42	98,57
899,37	83,98
999,34	72,54
1.099,31	63,40
1.199,28	55,97
1.299,26	49,84

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Distance	Flammable	Toxic	ERPG	IDLH	STEL	User
Downwind	18.8					
m	s	s	s	s	s	s
1.399,24	44,72					
1.499,23	40,40					
1.599,21	36,71					
1.699,20	33,54					
1.799,19	30,79					
1.899,18	28,39					
1.999,17	26,28					
2.099,16	24,41					
2.199,15	22,75					
2.299,15	21,27					
2.399,14	19,93					
2.499,13	18,73					
2.599,13	17,65					
2.699,12	16,66					
2.799,12	15,76					
2.899,11	14,94					
2.999,11	14,19					
3.099,11	13,49					
3.199,10	12,86					
3.299,10	12,27					
3.399,09	11,72					
3.499,09	11,21					
3.599,09	10,74					
3.699,09	10,30					
3.799,08	9,89					
3.899,08	9,50					
3.999,08	9,14					
4.099,08	8,81					
4.199,07	8,49					
4.299,07	8,19					
4.399,07	7,91					
4.499,07	7,64					
4.599,06	7,39					
4.699,06	7,15					
4.799,06	6,93					
4.899,06	6,72					
4.999,06	6,52					
5.099,06	6,32					
5.199,06	6,14					
5.299,06	5,97					
5.399,06	5,80					
5.499,06	5,65					
5.599,06	5,50					
5.699,06	5,35					
5.799,06	5,22					
5.899,06	5,09					
5.999,06	4,96					
6.099,06	4,84					
6.199,06	4,72					
6.299,06	4,61					
6.399,06	4,51					
6.499,06	4,41					
6.599,06	4,31					

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Downwind	18.8					
m	s	s	s	s	s	s
6.699,06	4,21					
6.799,06	4,12					
6.899,06	4,04					
6.999,06	3,95					
7.099,06	3,87					
7.199,06	3,79					
7.299,06	3,72					
7.399,06	3,65					
7.499,06	3,57					
7.599,06	3,51					
7.699,06	3,44					
7.799,06	3,38					
7.899,06	3,32					
7.999,06	3,26					
8.099,06	3,20					
8.199,06	3,14					
8.299,06	3,09					
8.399,06	3,04					
8.499,06	2,98					
8.599,06	2,93					
8.699,06	2,89					
8.799,06	2,84					
8.899,06	2,79					
8.999,06	2,75					
9.099,06	2,71					
9.199,06	2,67					
9.299,06	2,62					
9.399,06	2,59					
9.499,06	2,55					
9.599,06	2,51					
9.699,06	2,47					
9.799,06	2,44					
9.899,06	2,40					
9.999,06	2,37					
10.099,06	2,34					
10.199,06	2,30					
10.299,06	2,27					
10.399,06	2,24					
10.499,06	2,21					
10.599,06	2,18					
10.699,06	2,15					
10.799,06	2,13					
10.899,06	2,10					
10.999,06	2,07					
11.099,06	2,05					
11.199,06	2,02					
11.299,06	2,00					
11.399,06	1,97					
11.499,06	1,95					
11.599,06	1,92					
11.699,06	1,90					
11.799,06	1,88					
11.899,06	1,86					

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Distance	Flammable	Toxic	ERPG	IDLH	STEL	User
Downwind	18.8					
m	s	s	s	s	s	s
11.999,06	1,84					
12.099,06	1,81					
12.199,06	1,79					
12.299,06	1,77					
12.399,06	1,75					
12.499,06	1,74					
12.599,06	1,72					
12.699,06	1,70					
12.799,06	1,68					
12.899,06	1,66					
12.999,06	1,64					
13.099,06	1,63					
13.199,06	1,61					
13.299,06	1,59					
13.399,06	1,58					
13.499,06	1,56					
13.599,06	1,55					
13.699,06	1,53					
13.799,06	1,52					
13.899,06	1,50					
13.999,06	1,49					
14.099,06	1,47					
14.199,06	1,46					
14.299,06	1,44					
14.399,06	1,43					
14.499,06	1,42					
14.599,06	1,40					
14.699,06	1,39					
14.799,06	1,38					
14.899,06	1,37					
14.999,06	1,35					
15.099,06	1,34					
15.199,06	1,33					
15.299,06	1,32					
15.399,06	1,31					
15.499,06	1,29					
15.599,06	1,28					
15.699,06	1,27					
15.799,06	1,26					
15.899,06	1,25					
15.999,06	1,24					
16.099,06	1,23					
16.199,06	1,22					
16.299,06	1,21					
16.399,06	1,20					
16.499,06	1,19					
16.599,06	1,18					
16.699,06	1,17					
16.799,06	1,16					
16.899,06	1,15					
16.999,06	1,14					
17.099,06	1,13					
17.199,06	1,13					

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ppm

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Distance	Flammable	Toxic	ERPG	IDLH	STEL	User
Downwind	18.8					
m	s	s	s	s	s	s
17.299,06	1,12					
17.399,06	1,11					
17.499,06	1,10					
17.599,06	1,09					
17.699,06	1,08					
17.799,06	1,08					
17.899,06	1,07					
17.999,06	1,06					
18.099,06	1,05					
18.199,06	1,04					
18.299,06	1,04					
18.399,06	1,03					
18.499,06	1,02					
18.599,06	1,01					
18.699,06	1,01					
18.799,06	1,00					
18.899,06	0,99					

**Weather:****Category 5/D****Speed:****5,00 m/s****Stability:****D**

TOP EVENT 10-14\Methanol spill out\Disk rupture opening

Material: METHANOL

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ppm

Averaging time corrected concentrations

Note that this is the only report that reflects duration adjusted / corrected concentrations

Distance	Flammable	Toxic	ERPG	IDLH	STEL	User
Downwind	18.8					
m	s	s	s	s	s	s
<b>Segment Number: 1</b>						
0,00	1.000.000,00					
0,03	1.000.000,00					
0,03	956.253,46					
0,04	889.514,85					
0,07	788.538,38					
0,17	591.109,58					
0,27	486.881,00					
0,37	416.746,72					
0,56	324.454,61					
0,96	222.499,40					
1,36	166.150,56					
2,15	105.440,89					
3,75	54.778,63					
5,34	33.758,95					

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Distance Downwind m	Flammable 18.8 s	Toxic s	ERPG s	IDLH s	STEL s	User s
8,53	16.426,31					
10,13	12.496,67					
11,73	10.075,88					
14,93	7.448,05					
18,13	6.185,57					
21,32	5.308,83					
24,52	4.608,71					
30,91	3.575,41					
43,71	2.342,66					
69,29	1.240,01					
94,89	767,42					
101,28	692,42					
107,68	632,81					
120,48	535,55					
146,08	400,16					
197,27	251,15					
297,27	130,63					
397,26	81,23					
497,26	56,02					
597,26	41,30					
697,26	31,89					
797,26	25,49					
897,26	20,92					
997,26	17,53					
1.097,26	14,94					
1.197,26	12,92					
1.297,26	11,30					
1.397,26	9,98					
1.497,26	8,90					
1.597,26	7,99					
1.697,25	7,22					
1.797,25	6,57					
1.897,25	6,01					
1.997,25	5,52					
2.097,25	5,09					
2.197,25	4,71					
2.297,25	4,38					
2.397,25	4,08					
2.497,25	3,82					
2.597,25	3,58					
2.697,25	3,37					
2.797,25	3,17					
2.897,25	3,00					
2.997,25	2,83					
3.097,25	2,69					
3.197,25	2,55					
3.297,25	2,43					
3.397,25	2,31					
3.497,25	2,21					
3.597,25	2,11					
3.697,25	2,02					
3.797,25	1,93					
3.897,25	1,85					

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Distance	Flammable	Toxic	ERPG	IDLH	STEL	User
Downwind	18.8					
m	s	s	s	s	s	s
3.997,25	1,78					
4.097,25	1,71					
4.197,25	1,65					
4.297,25	1,59					
4.397,25	1,53					
4.497,25	1,47					
4.597,25	1,42					
4.697,25	1,38					
4.797,25	1,33					
4.897,25	1,29					
4.997,25	1,25					
5.097,25	1,21					
5.197,25	1,17					
5.297,25	1,14					
5.397,25	1,10					
5.497,25	1,07					
5.597,25	1,04					
5.697,25	1,01					
5.797,25	0,99					