33% Minimum Concentrations Required for a Range of Dose Rates at Specific Times

Minimum Standard Concentrations Required (g/m^3) with 33% Retention (16-56g/m^3)											Dosing is complete once ALL the required amount of gas has been applied to the enclosure.
Hours	**Retention**	**16**	**24**	**26.5**	**28**	**32**	**35**	**40**	**48**	**56**	Start Point is achieved when ALL concentration readings are at or above the Standard.
¼	85.00%	13.6	20.4	22.5	23.8	27.2	29.8	34.0	40.8	47.6	
½	75.00%	12.0	18.0	19.9	21.0	24.0	26.3	30.0	36.0	42.0	
1	70.00%	11.2	16.8	18.6	19.6	22.4	24.5	28.0	33.6	39.2	
2	60.00%	9.6	14.4	15.9	16.8	19.2	21.0	24.0	28.8	33.6	
3	57.00%	9.1	13.7	15.1	16.0	18.2	20.0	22.8	27.4	31.9	
4	52.00%	8.3	12.5	13.8	14.6	16.6	18.2	20.8	25.0	29.1	
5	49.50%	7.9	11.9	13.1	13.9	15.8	17.3	19.8	23.8	27.7	
6	47.00%	7.5	11.3	12.5	13.2	15.0	16.5	18.8	22.6	26.3	
7	45.00%	7.2	10.8	11.9	12.6	14.4	15.8	18.0	21.6	25.2	The duration of the fumigation is measured from when the Start Point is achieved. For example, if a 24 hr fumigation reaches Start Point 1 ½ hrs after dosing, the fumigation is completed 25 ½ hrs after applying the dose and ALL concentrations at or above the standard specified for 24 hrs.
8	42.50%	6.8	10.2	11.3	11.9	13.6	14.9	17.0	20.4	23.8	
9	41.00%	6.6	9.8	10.9	11.5	13.1	14.4	16.4	19.7	23.0	
10	39.60%	6.3	9.5	10.5	11.1	12.7	13.9	15.8	19.0	22.2	
11	38.10%	6.1	9.1	10.1	10.7	12.2	13.3	15.2	18.3	21.3	
12	36.60%	5.9	8.8	9.7	10.2	11.7	12.8	14.6	17.6	20.5	
16	35.10%	5.6	8.4	9.3	9.8	11.2	12.3	14.0	16.8	19.7	
20	33.60%	5.4	8.1	8.9	9.4	10.8	11.8	13.4	16.1	18.8	
24	33.00%	5.3	7.9	8.7	9.2	10.6	11.6	13.2	15.8	18.5	
28	29.15%	4.7	7.0	7.7	8.2	9.3	10.2	11.7	14.0	16.3	
32	28.31%	4.5	6.8	7.5	7.9	9.1	9.9	11.3	13.6	15.9	
36	27.47%	4.4	6.6	7.3	7.7	8.8	9.6	11.0	13.2	15.4	
40	26.64%	4.3	6.4	7.1	7.5	8.5	9.3	10.7	12.8	14.9	
44	25.82%	4.1	6.2	6.8	7.2	8.3	9.0	10.3	12.4	14.5	
48	25.00%	4.0	6.0	6.6	7.0	8.0	8.8	10.0	12.0	14.0	
Minimum concentration to allow top-up is		**- 5g/m^3** below the Standard Concentration									
Maximum top-up concentration		**+ 5g/m^3** above the Standard Concentration									

Concentration readings must be equal to or above the required concentrations specified for the hour preceding the reading. For example, a reading taken at 2.5 hours must be equal to or above the concentrations specified at 2 hours in the above table.

If the concentration measuring instrument used can only read in whole grams then the Minimum Standard Concentration required must be rounded up to the nearest whole number (i.e 7.9 gms rounded to 8gms)