Gasmet

Partial Library of Occupational Health & Safety Gases

for use with Model DX4040 or DX4015 FTIR multi-component Gas Analyzers

Updated : Feb-1-2016

CAS No.	Gas Name	Chemical Formula	Range (ppm) [1]	Limit (ppm) [2]	OEL's [3] TWA	STEL	Ceiling
75-07-0	**Acetaldehyde**	C_2H_4O	0 - 200	0.067	200		
64-19-7	**Acetic Acid**	CH_3COOH	0 - 100	0.020	10		
67-64-1	**Acetone**	CH_3COCH_3	0 - 200	0.035	500	750	
107-02-8	**Acrolein**	C_3H_4O	0 - 200	0.126	0.1		
107-13-1	**Acrylonitrile**	C_3H_3N	0 - 200	0.176	2	10	
7664-41-7	**Ammonia**	NH_3	0 - 50	0.065	25	35	
62-53-3	**Aniline**	C_6H_7N	0 -50	0.032	5		
7784-42-1	**Arsine**	AsH_3	0 - 50	0.010	0.05		
71-43-2	**Benzene**	C_6H_6	0 - 50	0.067	1	5	25
10294-34-5	**Boron Trichloride**	BCl_3	0 -50	0.004			1
106-99-0	**Butadiene-1,3**	C_4H_6	0 - 200	0.102	1	5	
124-38-9	**Carbon Dioxide**	CO_2	0 - 2000	<10	5000		
75-15-0	**Carbon Disulphide**	CS_2	0 -100	0.086	20	30	
630-08-0	**Carbon Monoxide**	CO2	0 - 200	0.123	50	200	
67-66-3	**Chloroform**	$CHCl_3$	0 - 100	0.021			50
76-06-2	**Chloropicrin**	CCl_3NO_2	0 - 20	0.039	0.1		
1319-77-3	**Cresol-m**	C_7H_8O	0 - 50	0.029	5		
98-82-8	**Cumene**	C_9H_{12}	0 - 500	0.023	50		
110-82-7	**Cyclohexane**	C_6H_{12}	0 - 50	0.007	300		
57041-67-5	**Desflurane (Suprane)**	$C_3H_2F_6O$	0 - 50	0.002			
75-35-4	**Dichloroethane-1,1**	$C_2H_4Cl_2$	0 - 200	0.152	100		
156-59-2	**Dichloroethene-cis**	$C_2H_2Cl_2$	0 - 200	0.071			
95-50-1	**Dichlorobenzene-o**	$C_6H_4Cl_2$	0 - 100	0.101			50
106-46-7	**Dichlorobenzene-p**	$C_6H_4Cl_2$	0 - 200	0.340	75		
109-89-7	**Diethylamine**	$C_4H_{11}N$	0 - 200	0.030	25		
60-29-7	**Diethyl ether**	$C_2H_5OC_2H_5$	0 - 50	0.012	400		
127-19-5	**Dimethylacetamide**	C_4H_9NO	0 - 100	0.011	10		
124-40-3	**Dimethylamine**	C_2H_7N	0 - 100	0.047	10		
68-12-2	**Dimethylformamide**	C_3H_7NO	0 - 100	0.052	10		
123-91-1	**Dioxane**	$C_4H_8O_2$	0 - 200	0.015	100		
13838-16-9	**Enflurane**	$C_3H_2ClF_5O$	0 - 20	0.004			
64-17-5	**Ethanol**	CH_3CH_2OH	0 - 200	0.102	1000		
141-43-5	**Ethanolamine**	C_2H_7NO	0 - 200	0.072	3		
141-78-6	**Ethyl acetate**	$C_4H_8O_2$	0 - 50	0.006	400		
100-41-4	**Ethyl Benzene**	C_8H_{10}	0 - 100	0.041	100		
75-00-3	**Ethyl chloride**	C_2H_5Cl	0 - 200	0.103	1000		

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CAS No.	Gas Name	Chemical Formula	Range (ppm) [1]		OEL's [3] TWA	STEL	Ceiling
75-21-8	**Ethylene Oxide (EtO)**	C_2H_4O	0 - 50	0.087	1	5	
50-00-0	**Formaldehyde**	CH_2O	0 - 50	0.043	0.75	2	
64-18-6	**Formic Acid**	HCOOH	0 - 100	0.015	5		
76-13-1	**Freon 113 (CFC-113)**	$C_2F_3Cl_3$	0 - 50	0.009	1000	1250	
76-14-2	**Freon 114 (CFC-114)**	$C_2F_4Cl_2$	0 - 50	0.006			
75-71-8	**Freon 12 (CFC-12)**	CCl_2F_2	0 - 50	0.012	1000		
811-97-2	**Freon 134a (HFC-134A)**	$C_2H_2F_4$	0 - 50	0.005			
1717-00-6	**Freon 141b**	$C_2H_3FCl_2$	0 - 50	0.037	1000	1250	
75-45-6	**Freon 22 (HCFC-22)**	$CHClF_2$	0 - 50	0.004			
111-30-8	**Glutaraldehyde**	$C_5H_8O_2$	0 - 20	0.021	0.2		
151-67-7	**Halothane**	$C_2HBrClF_3$	0 - 50	0.004			
302-01-2	**Hydrazine**	N_2H_4	0 -100	0.000	1		
7647-01-0	**Hydrogen Chloride**	HCl	0 - 50	0.100			5
74–90–8	**Hydrogen Cyanide**	HCN	0 - 50	0.177			5
7664-39-3	**Hydrogen Fluoride**	HF	0 - 50	0.150	3		
7722-84-1	**Hydrogen Peroxide**	H_2O_2	0 - 20	0.000	1		
78-83-1	**Iso-Butyl Alcohol**	$C_4H_{10}O$	0 - 100	0.026	100		
67-63-0	**Iso-Propyl Alcohol (IPA)**	C_3H_8O	0 - 100	0.031	400	500	
74-82-8	**Methane**	CH_4	0 - 100	0.053			
67-56-1	**Methanol**	CH_3OH	0 - 500	0.067	200		
79-20-9	**Methyl acetate**	$C_3H_6O_2$	0 - 100	0.007	200		
74-83-9	**Methyl bromide**	CH_3Br	0 - 50	0.199	5		20
109-86-4	**Methyl cellosolve**	$\mathbf{C_3H_8O_2}$	0 - 100	0.024	25		
110-49-6	**Methyl cellosolve acetate**	$CH_3COOCH_2CH_2OCH_3$	0 - 100	0.006	25		
71-55-6	**Methyl chloroform (TCE)**	$C_2H_3Cl_3$ or CH_3CCl_3	0 - 100	0.033	350		
78-93-3	**Methyl Ethyl Ketone**	$CH_3COC_2H_5$	0 - 200	0.068	200	300	
80-62-6	**Methyl Methacrylate**	$C_5H_8O_2$	0 - 50	0.008	100		
75-09-2	**Methylene chloride**	$C_2H_2Cl_2$	0 - 200	0.049	25	125	
74-89-5	**Methylamine**	CH_5N	0 - 200	0.109	10		
74-93-1	**Methylmercaptan**	CH_4S	0 - 200	0.207			10
10102-44-0	**Nitrogen Dioxide**	NO_2	0 - 50	0.183			5
7783-54-2	**Nitrogen Trifluoride**	NF_3	0 - 50	0.011	10		
10024-97-2	**Nitrous Oxide**	N_2O	0 - 100	0.008	25		
75-44-5	**Phosgene**	CCl_2O	0 - 50	0.009	0.1		
7803-51-2	**Phosphine**	PH_3	0 - 50	0.099	0.3		

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71-23-8	**Propanol**	C_3H_8O	0 - 100	0.040	200		
75-56-9	**Propylene Oxide**	C_3H_6O	0 - 100	0.059	20		
110-86-1	**Pyridine**	C_5H_5N	0 - 200	0.178	5		
28523-86-6	**Sevoflurane**	$C_4H_3F_7O$	0 - 50	0.003			
100-42-5	**Styrene**	C_8H_8	0 - 200	0.078	100		
2699-79-8	**Sulfuryl Fluoride**	SO_2F_2	0 - 50	0.013	5		
05/09/7446	**Sulphur Dioxide**	SO_2	0 - 100	0.014	2	5	
2551-62-4	**Sulphur Hexafluoride**	SF_6	0 - 50	0.002			
127-18-4	**Tetrachloroethylene (Perc)**	C_2Cl_4	0 - 50	0.016	100		
109-99-9	**Tetrahydrofuran**	C_4H_8O	0 - 100	0.033	200		
				0.000			
108-88-3	**Toluene**	C_7H_8 ($C_6H_5CH_3$)	0 - 200	0.065	200		
79-01-6	**Trichloroethylene**	C_2HCl_3	0 - 100	0.039	100		
526-73-8	**Trimethylbenzene (1,2,3)**	C_9H_{12}	0 - 100	0.052	25		
108-05-4	**Vinyl acetate**	$C_4H_6O_2$	0 - 50	0.003	10	15	
75-01-4	**Vinyl chloride**	CH_2CHCl	0 - 200	0.172	1	5	
75-35-4	**Vinylidene chloride**	$C_2H_2Cl_2$	0 - 100	0.058	5	20	
7732-18-5	**Water Vapour**	H_2O	0 - 3 %	<100			
106-42-3	**Xylene-p**	C_8H_{10}	0 - 100	0.052	100	150	

EO&E

Notes :

1. Measurement range - Typical recommended range however can be modified for site specific conditions
2. Theoretical Lower Limit Detection based on 60s measurement time, one component in Nitrogen, detection limit defined as 3x stdev(noise)
3. OEL's : Occupational Exposure Limits - Data per OSHA or NIOSH or ACGIH
4. Detection limits in general are application specific and this list should only be used as a guide.

Please note this document is supplied as a guide as detection limits are a function of the application (sample matrix). We strongly recommend that you contact Gasmet or your local representative todiscuss your specific application.

5. Subject to change without notification

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