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Instrument Ranges

Approximate Conversion Factors	Formula	Molecular Weight	mg/m³ > ppm	ppm > mg/m³	Procal 2000	Procal 5000
Ammonia	NH_3	17.03	1.32	0.76	0-100 ppm	0-20 ppm
Butane	C_4H_{10}	58.12	0.39	2.59	0-100 ppm	
Carbon Dioxide (gaseous)	CO_2	44.01	0.51	1.96	0-100 ppm	
Carbon Monoxide	CO	28.01	0.80	1.25	0-150 ppm	
Chlorine	Cl_2	70.91	0.32	3.17		0-20ppm
Chlorine Dioxide	ClO_2	67.5	0.33	3.01		10 ppm
Ethane	C_2H_6	30.07	0.74	1.34	0-200 ppm	
Ethylene	C_2H_4	28.05	0.80	1.25	0-500 ppm	
Fluorine	F_2	38.00	0.59	1.70		0-20 ppm
Hydrogen Chloride	HCl	36.46	0.61	1.63	0-500 ppm	
Hydrogen Fluoride	HF	20.00	1.12	0.89	0-200 ppm	
Hydrogen Sulphide	H_2S	34.08	0.66	1.52		0-20 ppm
Mercury	Hg	200.60	0.11	8.96		0-2 ppb
Methane	CH_4	16.04	1.40	0.72	0-300 pmm	
Nitric Oxide	NO	30.01	0.75	1.34	0-240 ppm	0-20 ppm
Nitrous Oxide	N_2O	44.00	0.51	1.97	0-300 ppm	0-500 ppm
Nitrogen Dioxide	NO_2	46.01	0.49	2.05	0-200 ppm	0-20 ppm
Ozone	O_3	48.00	0.47	2.14		0-1 ppm
Propane	C_3H_8	44.10	0.51	1.97	0-100 ppm	
Sulphur Dioxide	SO_2	64.06	0.35	2.86	0-100 ppm	0-10 ppm
Trichloroethane	$C_2H_3Cl_3$	133.40	0.17	5.96	0-100 ppm	
Water in Gases	$H_2O(g)$	18.02	1.24	0.80	0-2000 ppm	0-1%

These are minimum ranges (Full Scale). Normally maximum ranges are up to 100%. Conversion factor shown are for 273oK and 100kPa. Note: 0.1% VOL. Gas = 1000ppm.

The table shows only some of the components and range measured by Protea instruments. Many other applications are available.

Note some approvals subject to instrument or application.

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