DALEMANS GAS DETECTION

THE MOST IMPORTANT GASES

TOXIC GASES

Gas	Formula	Nr CAS	Density Air=1	TVL ppm	Detector position
Ammonia	NH_3	07664-41-7	0,59	20	Ceiling
Carbon dioxide	CO_2	00124-38-9	1,53	5000	Ground
Carbon monoxide	CO	00630-08-0	0,97	25	Respiratory system
Chlorine	Cl_2	07782-50-5	2,49	*	Ground
Ethylene oxide	C_2H_4O	00106-92-3	1,50	1	
Freons	-	-	-	-	Ground
Hydrogen chloride	HCl	07647-01-0	1,27	5	
Hydrogen sulfide	H_2S	07783-06-4	1,19	5	Respiratory system
Nitrogen dioxide	NO_2	10102-44-0	1,58	3	Respiratory system
Nitrous oxide	NO	10102-43-9	1,04	25	
Sulfur dioxide	SO_2	07446-09-5	2,26	2	Ground

EXPLOSIVE GASES

Gas	Formula	Nr CAS	Density Air=1	LIE % vol.	Detector position
Acetone	C_3H_6O	67-64-1	2,00	2,50	Ground
Acetylene	C_2H_2	74-86-2	0,90	2,30	Ceiling + ground
Benzene	C_6H_6	71-43-2	2,70	1,20	Ground
Butane	C_4H_{10}	106-97-8	2,05	1,40	Ground
Cyclohexane	C_6H_{12}	110-82-7	2,83	1,00	Ground
Ethanol	C_2H_6O	64-17-5	1,59	3,10	Ground
Ethylene	C_2H_4	74-85-1	0,97	2,3	Ceiling + ground
Ethylene oxide	C_2H_4O	75-21-8	1,52	2,60	Ground
LPG	-	68476-85-7	1,50	-	Ground
Hydrocarbons	LIE	-	-	-	
Hydrogen	H_2	1333-74-0	0,07	4,00	Ceiling
Isobutane	C_4H_{10}	75-28-5	2,00	1,30	Ground
Methane	CH_4	74-82-8	0,55	4,40	Ceiling
Methanol	CH_4O	67-56-1	1,11	6,00	Ceiling + ground
Octane	C_8H_{18}	111-65-9	3,93	0,80	Ground
Propane	C_3H_8	74-98-6	1,56	1,70	Ground
Propane - Air	-	-	1,15	2,00	Ceiling + ground
Toluene	C_7H_8	108-88-3	3,2	1	Ground

ASPHYXIATING GASES/OXYGEN

Gas	Formula	Nr CAS	Density Air=1	Detector position
Argon	Ar	07440-37-1	1,38	Respiratory system + ground
Nitrogen	N_2	07727-37-9	0,97	Respiratory system
Helium	He	7440-59-7	0,14	Respiratory system + ceiling
Oxygen	O_2	7782-44-7	1,10	Respiratory system

THE BELGIAN PIONEER IN GAS DETECTION