

ChemLogic Product Catalog



DOD Technologies, Inc.

Innovative Life Safety Systems & Services

About

Since our inception in 2003, DOD Technologies has striven to become a global leader of gas detection systems and services. Our cutting-edge ChemLogic gas detection products are specially designed to monitor toxic, corrosive, and flammable gases. These systems can be found across the world in a variety of applications. We have innovative gas detection solutions in the Semiconductor, Automotive (Polyurethane Foam), Specialty Chemical, Petrochemical, Aerospace, Wastewater, and Oil & Gas Industries.

Our services come with complete project integration, engineering, project management, and installation with on-site services. On-site services include testing the safety alarm matrix, training, calibration, periodic field service inspection, and repair. We provide complete support to our customers to ensure their project is finished quickly and correctly.

DOD Technologies has over 150 years of combined experience in the gas detection industry. Let us put our knowledge to work for you. Whether you are looking to put together a gas detection system for your new facility or replace one that does not meet your satisfaction, give us a call. We will find a solution for you in-house or through any one of our trusted partners.

Expect unmatched customer service and reliability when working with DOD Technologies. Tour our products and discover why more companies are turning to DOD Technologies for their gas detection solutions. Please call +1 815-788-5200 or email solutions@dodtec.com with questions. Visit our website www.dodtec.com or Facebook, Twitter, and LinkedIn to stay in touch.

Daniel O'Donnell
President / CEO



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CLPx

ChemLogic Portable Next Generation Gas Detector (CLPx)



FEATURE

- Improved Optics Design
- Immediate Alert Indicator Bar
- Automated Calibration
- Built in Data Logging

- Real Time Clock w/Date Stamp
- Selectable Calibration Curves
- Extended Battery Life
- Built in STEL

- 2 Alarm Levels

BENEFIT

Provides low level gas detection in seconds
Immediate Indication that gas is present
Eliminates the need for optical calibration
Micro SD card can record up to 5 years of data (.csv)
Accurate recording of data
All gas calibrations are user selectable
Up to 12 hours of continuous monitoring
Unit constantly calculates for a rolling 15 minute STEL
User selectable alarm levels

The Next Generation ChemLogic Portable (CLPx) provides reliable, portable, toxic gas detection that utilizes the most advanced electronics and analysis software to meet the needs of health and safety professionals.

The CLPx is a versatile instrument that can be configured to detect a variety of gases, eliminating the need to purchase multiple instruments to sample different gases. Changing the instrument from detecting one gas to another requires a simple change of the cassette.

Its improved optics design and automated optics calibration makes the CLPx the most reliable, fool-proof, user friendly gas detector on the market.

CLPx Technical Specifications

Detection Principle
Gas Families Available
Display
Operating Voltage
Operating Temperature
Humidity
Dimensions
Weight
Data Logging

ChemLogic Technology
See Page 12
Back-lit LCD With Graphic Stain Development
6VDC Battery or Charge/Line Powered 100-240VAC 50/60hz
40°F to 95°F (4°C to 35°C)
15% to 85% (non condensing)
H - 8.6" (219mm) W - 4.1" (105mm) L - 11.3" (287mm)
5.5 lbs. (2.5 Kg)
2GB Micro SD Card (.csv)

CL1/CL2

ChemLogic Single Point Continuous Monitor



FEATURE

- New Intelligent Optics
- Optimized Flow System
- 2 Month Cassette
- ChemLogic Technology
- SD Memory Card
- Real Time Display
- Complete Front Access
- Touch Control
- Compact Size
- Remote Reset
- Tape Saver Mode

BENEFIT

- Auto-Calibration, Reduced Maintenance and Risk of False Alarms
- Faster Response
- Reduced Operating Cost
- Field Proven Reliability
- Easily Retrievable Data (.csv)
- Quick Real Time Information
- Easy to Service
- Easy to Startup & Operate
- Simple to Install
- Ideal for Process Applications
- Reduces Tape Usage During High Concentrations

The ChemLogic Continuous Single and Dual Point Gas Monitor is the next generation of interference free, low-maintenance colorimetric gas detection. The innovative CL1 and CL2 provide relay and analog outputs along with the ability to upgrade to Ethernet IP or Modbus TCP.

The Z-Purge, Vortex Cooler/Heater, and Weather Proof NEMA 4X enclosure options, provide maximum versatility allowing the CL1 to operate in extreme weather and hazardous locations.

This innovative gas detection system enables customers to experience advanced technology at a lower initial investment and reduced cost of ownership.

CL1/2 Technical Specifications

Detection Principle

Gas Families Available

Monitoring Points

Sample Distance

Display

Local Alarm Indication

Relay Outputs

Operating Temperature

Dimensions

Shipping Weight

Operating Voltage

Power Consumption

Enclosure

Analog Output (Standard)

Communication Protocol Options

Purge Option

Vortex Cooler/Heater Option

ChemLogic Technology

See Page 12

1-2

150 Ft. (45m) 1/4" OD 3/16" ID Teflon FEP

Standard HMI, Color Touchscreen HMI Option Available

Visual HMI Display

6 Amps Form C - Programmable Low and High Level Fault

40°F to 104°F (5°C to 40°C)

H - 12.5" (317.5mm) W - 10.3" (260mm) D - 9" (228mm)

30 lbs. (13.5 kg)

85-264 VAC 50/60 Hz

Less Than 1 Amp

NEMA 4X

4-20mA (500 ohm max impedance)

Ethernet IP, Modbus TCP

80-120 PSI 10 SCFm Min (3/8" Tube Compression)

80-120 PSI 10 SCFm Min (3/8" Tube Compression)

CL4/CL8

ChemLogic 4 and ChemLogic 8 Point Continuous Monitor (CL4/CL8)



FEATURE

- New Intelligent Optics
- Optimized Flow System
- 2 & 4 Month Cassettes
- ChemLogic Technology
- Flash Memory Storage
- Real Time Trend Display
- Complete Front Access
- Touch Screen Control
- Compact Size

BENEFIT

- Reduced Maintenance and Risk of False Alarms
- Quicker Response
- Reduced Operation Cost
- Field Proven Reliability
- Easily Retrievable Data (.csv)
- Quick Real Time Information
- Easy to Service
- Easy to Startup & Operate
- Simple to Install



The ChemLogic Continuous 4 and 8 Point Gas Monitors are the next generation of interference free, low-maintenance colorimetric gas detection. These systems utilize a state-of-the-art and user-friendly touch screen control with a CF data collection system. The CL4 and CL8 have the ability to provide multiple outputs and communication protocols. The option to add additional inputs allows us to customize the software to meet your application needs.

Additional Options Available:

- Pyrolyzer Option to detect NF3, C4F6 and C5F8.
- The Z-Purge, Vortex Cooler/Heater, and Weather Proof NEMA 4X enclosure options, provide maximum versatility allowing the CL4/CL8 to operate in extreme weather and hazardous locations.

For a complete list of options please contact DOD Technologies, Inc.

CL4/8 Technical Specifications

Detection Principle

ChemLogic Technology

Gas Available

See Page 12

Monitoring Points

4-8

Sample Distance

300 Ft. (91m) 1/4" OD 3/16" ID Teflon FEP

Display

8" Color Touch Screen HMI

Local Alarm Indication

Audible and Visual

Standard Relay Outputs

24VDC Syncing/Sourcing (Programmable Low and High Level), Fault

Optional Outputs

4-20mA, Form C Mechanical Relays

Operating Temperature

40°F to 104°F (5°C to 40°C)

Shipping Weight

70 lbs. (31.8 kg)

Operating Voltage

100/110 VAC @ 50/60Hz, 230 VAC 50Hz

Power Consumption

Less than 1 Amp

Communication Protocols

Ethernet IP, Modbus TCP, Profibus, OPC

Dimensions

H - 20.0" (508mm) W - 11.3" (287mm) L - 21.0" (533.5mm)

CL96

ChemLogic 96 Point Continuous Monitor



FEATURE

- New Intelligent Optics
- 16 to 96 Points of Detection
- Up to 3 Gas Families
- Optimized Flow System
- 4 Month Cassette Life
- ChemLogic Technology
- USB Port with Memory Stick
- Real Time Trend Display
- Complete Front Access
- Touch Screen Control
- Compact Size
- Energy Efficient (Green)

BENEFIT

- Reduced Maintenance and Risk of False Alarms
- Flexible & Expandable System
- Reduced Installation & Operating Costs
- Faster Response
- Reduced Operating Cost
- Field Proven Reliability
- Easily Retrievable Data
- Quick Real Time Information
- Easy to Service
- Easy to Startup & Operate
- Simple to Install
- Uses 90% Less Energy Per Point than the Competition

The DOD Technologies ChemLogic 96 (CL96) simultaneously monitors up to ninety-six locations for toxic and corrosive gases. The system is comprised of up to 6 individual 'Analyzers' each monitoring 16 points. It responds to gases that exceed a programmed alarm level by:

- Triggering visual alarms that warn of high or low concentrations
- Triggering relays or activating analog outputs to external devices
- Displaying the point number, gas type, and gas concentration
- Recording the alarm information and storing it in memory
- Optional ChemLogic Technology allows the user to remotely access, capture, download and clip video events during a live gas alarm

Each sample point may be up to 400 feet (121 m) from the CL96 location. This allows operators to monitor gas concentrations in an area removed from the location where gas may actually be leaking.

The CL96 provides a fast response to a wide range of gases, including the option to add a pyrolyzer for gases such as NF₃, C₄F₆ and C₅F₈. It was designed for maximum uptime, so routine maintenance and service can be performed quickly and easily.

CL96 Technical Specifications

Detection Principle

ChemLogic Technology

Gas Families Available

See Page 12

Monitoring Points

16-32-48-64-80-96 points (with three detection families of gas)

Sample Distance

400 Ft. (122m) 1/4" OD 3/16" ID Teflon FEP

Display

19" Color Touch Screen HMI

Local Alarm Indication

Audible and Visual

Standard Relay Outputs

24VDC Syncing/Sourcing (Programmable Low and High Level), Fault

Optional Outputs

4-20mA & Mechanical Relays

Operating Temperature

40°F to 104°F (5°C to 40°C); 20-80% RH (non-condensing)

Shipping Weight

450 lbs. (204 Kg)

Operating Voltage

100/110 VAC @ 50/60Hz, 230 VAC 50Hz

Power Consumption

Less than 1 Amp / Less than 3 Amps

Communication Protocol

Ethernet IP (standard), DeviceNet, OPC, Profibus, Modbus TCP, ControlNet, etc.

Dimensions

H - 59"(+10" for tubing) x W - 31"(+9" for wiring) x D - 28.5"

DOD64 FTIR

DOD64 FTIR Continuous Monitor

The DOD64 FTIR is a flexible 16 to 64 point sequential FTIR monitor that provides field proven FTIR Technology for the quick detection of low-level toxic, corrosive, and combustible gases.



FEATURE

- **Advanced Interferometer**
- **16 - 64 Points of Detection**
- **20 gas selections Per Point**
- **50 Initial Gases to Select From**
- **MCT Stirling Cooled Detector**
- **Ceramic Globar IR Source**
- **VCSEL Reference Laser**
- **Sample Cell Volume 400m**
- **USB Port With Memory Stick**
- **Real Time Trend Display**
- **Complete Front Access**
- **Touch Screen Control**
- **Compact Size**
- **Advanced HMI & Flash control**

BENEFIT

- Increased Reliability / Lower Maintenance
- Flexible & Expandable System
- Cost Effective Monitoring Per Point
- Flexible to Adapt to New Requirements
- Detects Gases At a Much Lower Level (PPB)
- Increased Reliability / Lower Maintenance
- Increased Reliability / Lower Maintenance
- Quick Sample Fill Time & Analysis (min 10 sec)
- Easily Retrievable Data and Spectra
- Quick Real Time Information and Spectra
- Easy to Service
- Easy to Startup & Operate
- Simple to Install/ Saves Space
- More Reliable and Easy to Learn

The DOD64 FTIR Gas Monitor offers a unique solution to today's environmental monitoring needs. This system is integrated with all new state of the art controls and HMI systems. The DOD64 FTIR new multi-point system makes FTIR monitoring more affordable per point and simplifies the operations through a well thought out, customer driven innovative engineering approach. This new, innovative gas detection system enables customers to experience advanced technology at a lower initial investment and reduced cost of ownership.

DOD64 FTIR Technical Specifications

Detection Principle

Monitoring Points

Sample Distance

Display

Local Alarm Indication

Standard Relay Outputs

Communication Protocol Options

Operating Temperature

Shipping Weight

Operating Voltage

Power Consumption

Dimensions

Spectral Range

Scan Speed

Selectable Scan Time

Infrared Source

Reference Laser

Detector

Line Flow

Line Sample Analysis

Gas Cell Path Length

Gas Cell Construction

Mirrors

FTIR Technology

16-32-48-64 points

400 Ft. (122m) 1/4" OD 3/16" ID Teflon FEP

19" Color Touch Screen HMI

Audible and Visual

24VDC Syncing/Sourcing (Programmable Low and High Level), Fault

Ethernet IP (standard), DeviceNet, OPC, Profibus, Modbus TCP, ControlNet, etc.

40°F to 104°F (5°C to 40°C)

450 lbs.

100/110 VAC @ 50/60Hz, 230 VAC 50Hz

Less than 6 Amps

H - 59"(+10" for tubing) x W - 31"(+9" for wiring) x D - 28.5"

4.0 cm-1

1 scan/sec at 4.0cm-1

1-300 seconds

Ceramic Globar at 1500° C

VCSEL (Vertical Cavity Surface Emitting Laser) at 850nm

Stirling-Cooled MCT (Mercury Cadmium Telluride)

Continuous Line purge (linear diaphragm pump)

Sequential (as little as 10 sec per)

10.0 meter effective path

Nickel Coated Aluminum

ZnSe

DOD64 FTIR Measurable Gas List

Formula	Gas	Cas Number	LDL 10 sec ** In N2 (PPB)
ASH3	Arsine	7784-42-1	5-25***
B2H6	Diborane	19287-45-7	5
BCl3	Boron Trichloride	10294-34-5	5
BF3	Boron Trifluoride	7/2/7637	80**
C2H4	Ethylene	74-85-1	50
C2H7N	Dimethylamine (DMA)	124-40-3	24
C3H6	Propene / Propylene	115-07-1	48
C3H6O	Acetone	67-64-1	60
C3H9B	TMB / Trimethylboron	593-90-8	N/A
C3H9P	TMP / TrimethylPhosphine	594-09-2	N/A
C4F6	Hexafluoro-1,3 butadiene	685-63-2	10
C4H13NO	Tetramethyl Ammonium Hydroxide/TMAH/TMAOH	75-59-2	N/A
C5F8	Octafluorocyclopentene	559-40-0	3
C5H10O	2-Pentanone	107-87-9	16
C6H12O3	PGMEA	108-65-6	20
C6H6	Benzene	71-43-2	90
C7H14O	2-heptanone	110-43-0	15
C7H14O3	Ethyl 3-ethoxypropionate	763-69-9	N/A
C7H8	Toluene	108-88-3	60
C8H10	p-Xylene	106-42-3	20
CCL4	Carbon tetrachloride	56-23-5	N/A
CH2F2	Difluoromethane (R32)	75-10-5	5
CH3CO2H	Acetic Acid	64-19-7	4.5
CH3F	Methyl Fluoride (R41)	593-53-3	75
CH3OH	Methyl Alcohol	67-56-1	16
CH4	Methane	74-82-8	28
CHCl3	Chloroform	67-66-3	7.2
CHF3	Fluoroform	75-46-7	N/A
CNCl	Cyanogen Chloride	506-77-4	1000
CO	Carbon Monoxide	630-08-0	21
CO2	Carbon Dioxide	124-38-9	N/A
Coolent HT200	Galden HT 200 Coolent See attached MSDS	N/A	N/A
COS	Carbonyl Sulfide	463-58-1	15
GeH4	Germane	7782-65-2	5***
H2O	Water	7732-18-5	12
HBr	Hydrogen Bromide	10035-10-6	65
HCL	Hydrogen Chloride	7647-01-0	20
HF	Hydrogen Fluoride	7664-39-3	12
HMDS	Hexamethyldisilazane	999-97-3	3.6
HNO3	Nitric Acid	7697-37-2	11
IPA	Isopropyl Alcohol	67-63-0	30
C5F8	Octafluorocyclopentene	559-40-0	5
N2O	Nitrous Oxide	10224-97-2	3
NF3	Nitrogen Trifluoride	7783-54-2	5
NH3	Ammonia	7664-41-7	7
NMP	N-Methyl-2-Pyrrolidone	872-50-4	6.5
NO	Nitric Oxide	10102-43-9	5
O3	Ozone	10028-15-6	12
PH3	Phosphine	7803-51-2	20***
POCl3	Phosphoryl chloride	10025-87-3	N/A
Si(CH3)3	Trimethyl Silane TMS	993-07-7	N/A
Si(CH3)4	Tetramethylsilane or 4MS	75-76-3	N/A
SiCL4	Silicon Tetrachloride	10026-04-7	380
SiF4	Silicon Tetrafluoride	7783-61-1	0.6
SiH2CL2	Dichlorosilane	4109-96-0	5
SiH4	Silane	7803-62-5	7
SiHCL3	Trichloro Silane	10025-78-2	4.5
SO2	Sulfur Dioxide	9/5/7446	N/A
TEOS	Tetraethoxysilane	78-10-4	5
WF6	Tungsten Hexafluoride	7783-82-6	8

LDL In Nitrogen. Actual LDL's in custom methods will vary.

IsoSense

IsoSense Sampling Unit

The IsoSense is a portable and economical sampling device ideal for measuring vapor and aerosol levels of isocyanate compounds (MDI and TDI down to 1 PPB). Specially designed for personal exposure evaluations, area surveys and emergency response.



TEST CARDS/ TEST STRIP TECHNICAL SPECIFICATIONS

• Shelf-life	6 Months
• Detection Principle	Colorimetric
• Analysis Method	Visual With Use of a Dose Estimator
• Lower Detection Limit	1 ppb
• Accuracy	+/- 25%
• Temperature Range	10°C to 40°C
• Humidity	20% to 85% RH

The IsoSense sampling unit has a digital display which displays battery life, flow rate and sample time. This smart sampling unit will constantly check for restricted air flow, blocked airflow or over flow while automatically adjusting and maintaining the preset value.

Samples are taken by first placing a pretreated test strip in a specially designed test strip holder. Next, start the state of the art pump which is preset for analysis time and flow. Once the sampling is complete, remove the test strip and compare the color change with the calibrated comparator color wheel to determine the exposure concentration.

IsoSense Sampling Kit includes:

- Sampling Unit (Pump) With Belt Clip
- Battery Charger
- Sampling Holder With Five Feet of Sampling Tubing
- Flow Test Kit
- 20 Test Strips (Isocyanate)
- Concentration Calculator
- Manual
- Carrying Case

IsoSense Sampling Unit Technical Specifications

Test Card Holder

Operating Time

Battery

Sampling Pump

Blue anodized metal with 5 ft. Tygon tubing and stainless steel clip. FEP Teflon sampling inlet.

8 hours per full charge

Rechargeable NIMH Battery

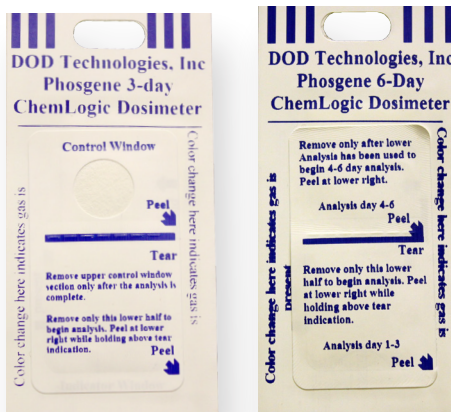
- Quick start preset analysis time (5M)
- Preset automatically adjusted flow
- Sample time remaining and battery life indicator
- Flow interrupted fault

ChemLogic Dosimeter Badges

The Dosimeter Badges operate by direct diffusion exposure, no pump or active elements are needed. The Badges are lightweight direct-reading monitors designed to be worn by individuals who are potentially at risk from acute toxic gases in their working environments.

The Dosimeter Badges indicate the presence of toxic gases by means of a highly specific chemical color reaction in which the amount of color produced is directly proportional to the concentration of gas (with use of a Dose Estimator), and the time of exposure.

Badge programs typically require a minimum of administrative and maintenance effort. Badges are sealed, numbered and dated, and can be easily distributed. Used badges can serve as a record of an individual's daily exposure, providing for a comprehensive work history.



PHOSGENE	RANGE OF DETECTION
(Detects both Phosgene & Chloroformates)	Low Sensitivity 10-Day Badge Medical Badge 50-300 ppm/min
	High Sensitivity 6-Day Badge (.5-100 ppm/min)
	High Sensitivity 3-Day Badge With Control Window (.5-100 ppm/min)
	High Sensitivity 3-Day Badge Without Control Window (.5-100 ppm/min)



TDI	RANGE OF DETECTION
	10 ppb/hours (min) 385 ppb/hours (max)



HYDRAZINE	RANGE OF DETECTION
	0.25-6.5 TLV/hours (0.25-1.1 ppm/hours)
MONOMETHYLHYDRAZINE (MMH)	RANGE OF DETECTION
	0.25-6.5 TLV/hours (0.25-1.3 ppm/hours)

ChemLogic Measurable Gas List

Measurable Gas	Symbol	CAS NUMBER	TLV	Range*	CLPx	CL1	CL2	CL4	CL8	CL96
Acetic Acid	CH3CO2H	64-19-7	10000 ppb	50 ppb	-	-	-	-	X	-
Ammonia	NH3	7664-41-7	25 ppm	75 ppm	X	X	X	X	X	X
Arsenic Pentafluoride [^]	AsF5 (HF)	7784-36-3	2 ppm	10 ppm	X	X	X	X	X	X
Arsenic Trichloride ^{^^}	AsHCl3 (HCl)	7784-34-1	5 ppm	15 ppm	X	X	X	X	X	X
Arsenic Trifluoride [^]	AsF3 (HF)	7784-35-2	2 ppm	10 ppm	X	X	X	X	X	X
Arsine	AsH3	7784-42-1	50 ppb	500 ppb	X	X	X	X	X	X
Arsine	AsH3	7784-42-1	5 ppb	50 ppb	X	X	X	X	X	X
Boron Tribromide ^{^^^}	BBr3 (HBr)	10294-33-4	3 ppm	20 ppm	X	X	X	X	X	X
Boron Trichloride ^{^^}	BCl3 (HCl)	10294-34-5	5 ppm	15 ppm	X	X	X	X	X	X
Boron Trifluoride	BF3	7637-07-02	1000 ppb	5000 ppb	X	-	-	-	-	-
Boron Trifluoride	BF3	7637-07-02	1000 ppb	3200 ppb	-	X	X	X	X	X
Bromine	Br2	7726-95-6	100 ppb	1000 ppb	-	X	X	X	X	X
Carbon Sulfide	COS	463-58-1	20 ppm	20 ppm	X	X	X	X	X	X
Carbonyl Fluoride [^]	COF2 (HF)	353-50-4	2 ppm	10 ppm	X	X	X	X	X	X
Cyclohexane Diisocyanate	CHDI		-	100 ppb	-	X	-	-	-	-
Chlorine	Cl2	7782-50-5	500 ppb	5000 ppb	X	X	X	X	X	X
Chlorine	Cl2	7782-50-5	500 ppb	3200 ppb	-	X	X	X	X	X
Chlorine	Cl2	7782-50-5	500 ppb	2000 ppb	X	X	X	X	X	X
Chlorine	Cl2	7782-50-5	500 ppb	30 ppb	-	X	X	X	X	X
Chlorine	Cl2	7782-50-5	500 ppb	20 ppb	X	-	-	-	-	-
Chlorine Trifluoride [^]	ClF3 (HF)	7790-91-2	2 ppm	10 ppm	X	X	X	X	X	X
Diborane	B2H6	19287-45-7	100 ppb	1000 ppb	X	X	X	X	X	X
Dichlorosilane ^{^^}	SiH3Cl2 (HCl)	4109-96-0	5 ppm	15 ppm	X	X	X	X	X	X
Fluorine	F2	7782-41-4	1000 ppb	3200 ppb	X	X	X	X	X	X
Fluosilic Acid [^]	H2SiF6 (HF)	16961-83-4	2 ppm	10 ppm	X	X	X	X	X	X
Germane	GeH4	7782-65-2	200 ppb	2000 ppb	X	X	X	X	X	X
Germanium Tetrafluoride [^]	GeF4 (HF)	7783-58-6	2 ppm	10 ppm	X	X	X	X	X	X
Hexachlorodisilane ^{^^}	SiCl2 (HCl)	13465-77-5	5 ppm	15 ppm	X	X	X	X	X	X
Hexamethylene Diisocyanate	HDI	822-06-0	5 ppb	200 ppb	X	-	-	-	-	-
Hexamethylene Diisocyanate	HDI	822-06-0	5 ppb	100 ppb	-	X	-	-	-	-
HMDI	HMDI	5124-30-1	-	100 ppb	X	X	-	-	-	-
Hydrazine	N2H4	302-01-2	10 ppb	500 ppb	X	X	X	X	X	-
Hydrochloric Acid	HCl	7647-01-0	5 ppm	15 ppm	X	X	X	X	X	X
Hydrogen Bromide	HBr	10035-10-6	3 ppm	20 ppm	X	X	X	X	X	X
Hydrogen Cyanide	HCN	74-90-8	4.7 ppm	20 ppm	X	-	-	-	-	-
Hydrogen Cyanide	HCN	74-90-8	20 ppb	2500 ppb	-	X	X	X	X	X
Hydrogen Fluoride	HF	7669-39-3	2 ppm	10 ppm	X	X	X	X	X	X
Hydrogen Selenide	H2Se	7783-07-5	50 ppb	500 ppb	X	X	X	X	X	X
Hydrogen Sulfide	H2S	7783-06-4	1000 ppb	1500 ppb	-	X	X	X	X	X
Hydrogen Sulfide	H2S	7783-06-4	1000 ppb	500 ppb	-	X	X	X	X	X
Hydrogen Sulfide	H2S	7783-06-4	1000 ppb	90 ppb	X	X	X	X	X	X
Hydrogen Sulfide	H2S	7783-06-4	1 ppm	50 ppm	X	X	X	X	X	-
Hydrogen Sulfide	H2S	7783-06-4	1 ppm	20 ppm	X	X	X	X	X	X
Hydrogen Sulfide	H2S	7783-06-4	1 ppm	5 ppm	-	X	X	X	X	X
Isophorone Diisocyanate	IPDI	4098-71-9	5 ppb	200 ppb	X	-	-	-	-	-

Measurable Gas	Symbol	CAS NUMBER	TLV	Range*	CLPx	CL1	CL2	CL4	CL8	CL96
Isophorone Diisocyanate	IPDI	4098-71-9	5 ppb	100 ppb	-	X	-	-	-	-
Methylene Diphenyl Diisocyanate	MDI	101-68-8	5 ppb	200 ppb	X	X	-	-	-	-
Methylene Diphenyl Diisocyanate	MDI	101-68-8	5ppb	100 ppb	-	X	-	-	-	-
Methylene Isocyanate	MIC	624-83-9	.02 ppm	100 ppm	-	X	X	X	X	X
Methylene Isocyanate	MIC	624-83-9	.02 ppm	10 ppm	-	X	X	X	X	X
Nitric Acid	HNO3	7697-37-2	2000 ppb	6000 ppb	X	-	-	-	-	-
Nitric Acid	HNO3	7697-37-2	2000 ppb	5000 ppb	-	X	X	X	X	X
Nitrogen Dioxide	NO2	10102-44-0	3 ppm	100 ppm	-	X	X	X	X	X
Nitrogen Dioxide	NO2	10102-44-0	3 ppm	30 ppm	-	X	X	X	X	X
Nitrogen Dioxide	NO2	10102-44-0	3 ppm	25 ppm	X	-	-	-	-	-
Nitrogen Trifluoride**	NF3	7783-54-2	10 ppm	20ppm	-	-	-	-	X	-
Octafluorocyclopentene**	C5F8	559-40-0	2 ppm	15ppm	-	-	-	-	X	-
Ozone	O3	10028-15-6	100 ppb	300 ppb	X	-	-	-	-	-
Phenyl Trichlorosilane^^	SiCl3Ph (HCl)	98-13-5	5 ppm	15 ppm	X	X	X	X	X	X
Phosgene	COCl2	75-44-5	100 ppb	5000 ppb	-	X	X	X	X	X
Phosgene	COCl2	75-44-5	100 ppb	4000 ppb	-	X	X	X	X	-
Phosgene	COCl2	75-44-5	100 ppb	3250 ppb	-	X	X	X	X	X
Phosgene	COCl2	75-44-5	100 ppb	3000 ppb	X	X	X	X	X	-
Phosgene	COCl2	75-44-5	100 ppb	1000 ppb	-	X	X	X	X	-
Phosgene	COCl2	75-44-5	100 ppb	900 ppb	-	X	X	X	X	-
Phosgene	COCl2	75-44-5	100 ppb	300 pbb	-	X	X	X	X	X
Phosgene	COCl2	75-44-5	100 ppb	90 ppb	X	-	-	-	-	-
Phosphine	PH3	7803-51-2	300 ppb	300 ppb	-	X	X	X	X	X
Phosphine	PH3	7803-51-2	300 ppb	1500 ppb	X	X	X	X	X	X
Phosphorus Oxychloride^^	POCl3 (HCl)	10025-87-3	5 ppm	15 ppm	X	X	X	X	X	X
Phosphorus Pentachloride^^	PCl5 (HCl)	10026-13-8	5 ppm	15 ppm	X	X	X	X	X	X
Phosphorus Pentafluoride^	PF5 (HF)	7647-19-0	2 ppm	10 ppm	X	X	X	X	X	X
Phosphorus Tribromide^^^	PBr3 (HBr)	7789-60-8	3 ppm	20 ppm	X	X	X	X	X	X
Phosphorus Trichloride^^	PCl3 (HCl)	7719-12-2	5 ppm	15 ppm	X	X	X	X	X	X
Phosphorus Trifluoride^	PF3 (HF)	7783-55-3	2 ppm	10 ppm	X	X	X	X	X	X
Silane	SiH4	7803-62-5	5 ppm	50 ppm	X	X	X	X	X	X
Silicon Tetrachloride^^	SiCl4 (HCl)	10026-04-7	5 ppm	15 ppm	X	X	X	X	X	X
Silicon Tetrafluoride ^	SiF4 (HF)	7783-61-1	2 ppm	10 ppm	X	X	X	X	X	X
Stibine	SbH3	7803-52-3	100 ppb	500 ppb	-	X	X	X	X	X
Sulfur Dioxide	SO2	7746-09-5	0 ppb	2500 ppb	-	X	X	X	X	X
Sulfur Tetrafluoride^	SF4 (HF)	7786-60-0	2 ppm	10 ppm	X	X	X	X	X	X
Sulfuric Acid	H2SO4	7764-93-9	50 ppb	750 ppb	X	X	-	-	-	-
Sulfuric Acid	H2SO4	7764-93-9	50 ppb	3200 ppb	-	X	X	X	X	X
Tetrafluorosilane^	SiF4 (HF)	7783-61-1	2 ppm	10 ppm	X	X	X	X	X	X
Tetrakis(dimethylamido)titanium	TDMAT	3275-24-9	N/A	10 ppm	-	-	-	-	-	X
Tin Tetrachloride^^	SnCl4 (HCl)	7646-78-8	5 ppm	15 ppm	X	X	X	X	X	X
Toluene Diisocyanate	TDI	584-84-9	5 ppb	100 ppb	-	X	-	-	-	-
Toluene Diisocyanate	TDI	584-84-9	5 ppb	200 ppb	X	X	-	-	-	-
Toulene Diamine	TDA	95-80-7	10 ppm	60 ppb	-	X	-	-	-	-
Trichlorosilane^^	SiHCl3 (HCl)	10025-78-2	5 ppm	15 ppm	X	X	X	X	X	X
Tungsten Hexafluoride^	WF6 (HF)	7783-82-6	2 ppm	10 ppm	X	X	X	X	X	X

* Not all ranges available for every product.
Please contact DOD Technologies for additional requests.
** Requires pyrolyzer option for detection

^ Compounds which hydrolyze to HF
^^ Compounds which hydrolyze to HCl
^^^ Compounds which hydrolyze to HBr



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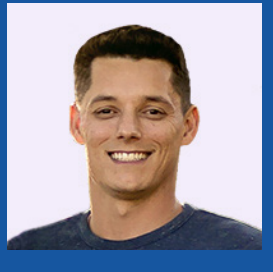
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