

# Detection Limit Information for ESS analysers

From <http://www.gas-analyser.co.uk>

## General Gas Types:

Gas Name	Capillary Inlet
Argon	<1ppm
CO	<1ppm
CO2	<1ppm
Helium	<100ppb
Hydrogen	<1ppm
Krypton	<2ppb
Methane	<1ppm
Nitrogen	<1ppm
Oxygen	<1ppm
Xenon	<1ppm



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### Semiconductor Gases:

Gas Name	Capillary Inlet
AR	<1ppm
AsH3	<1ppm
C2F6	<1ppm
C3F8	<1ppm
CF4	<1ppm
CHF3	<1ppm
CO2	<1ppm
CO2	<1ppm
F2	<1ppm
H2O	<1ppm
HF	<1ppm
NF3	<1ppm
Nitrogen	<1ppm
PH3	<1ppm
SF6	<1ppm
SIF4	<1ppm
SIH4	<1ppm
WF3	<1ppm
WF6	<1ppm



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Process Gases:

Gas Name	Capillary Inlet	Membrane Inlet
1,3,Butadiene	<1ppm	<50ppb
Acrylic Acid	<1ppm	<50ppb
Benzene	<1ppm	<1ppb
Butene	<1ppm	<1ppm
Chlorine	<1ppm	<1ppm
CO	<1ppm	<1ppm
CO2	<1ppm	<1ppm
COS	<5ppm	<0.01ppb
Cyclohexane	<5ppm	<1ppb
Ethylene	<5ppm	<5ppm
Ethylene Oxide	<5ppm	<5ppm
H2SO4	<5ppm	<5ppm
HCL	<5ppm	<5ppm
Hexane	<1ppm	<1ppb
HF	<10ppm	<10ppm
Hydrogen	<1ppm	<1ppm
Methane	<1ppm	<1ppm
NH3	<50ppm	<50ppm
Propene	<1ppm	<1ppm
SO2	<1ppm	<1ppm
Styrene	<1ppm	<1ppb
Toluene	<1ppm	<1ppb
Vinyl Acetate	<1ppm	<1ppb
Xylene	<1ppm	<1ppb



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### Atmospheric Monitoring Gases:

Gas Name	Membrane Inlet	TD/MS Link
1,3, Butadiene	<50ppb	<0.01ppb
Acetone	<50ppb	<0.01ppb
Acrylic Acid	<50ppb	<0.01ppb
Benzene	<1ppb	<0.01ppb
Chlorine	<1ppm	N/A
DMS	<50ppb	<0.01ppb
Ethylene Oxide	<50ppb	<0.01ppb
HF	<10ppm	N/A
Isoprene	<1ppb	<0.01ppb
MEK	<50ppb	<0.01ppb
Methane	<50ppb	<0.01ppb
MIBK	<50ppb	<0.01ppb
Nox	<50ppb	<0.01ppb
Sox	<50ppb	<0.01ppb
Styrene	<5ppb	<0.01ppb
Toluene	<1ppb	<0.01ppb
Trike	<1ppb	<0.01ppb
Vinyl Acetate	<1ppb	<0.01ppb
Xylene	<1ppb	<0.01ppb



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## Brewing Gas Analysis

Gas Name	TD/MS Only
Acetone	<0.01ppb
Benzene	<0.01ppb
Carbonyl Sulphide	<0.01ppb
Cyclohexane	<0.01ppb
DMS	<0.01ppb
Freons	<0.01ppb
MEK	<0.01ppb
Methanol	<0.01ppb
MIBK	<0.01ppb
Toluene	<0.01ppb
Xylene	<0.01ppb



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### Aerospace & Defence:

Gas Name	Capillary Inlet
Chlorine	<1ppm
CO	<1ppm
CO2	<1ppm
HF	<1ppm
Krypton	<2ppb
Methylene Chloride	<1ppm
Nox	<1ppm
Sox	<1ppm
Xenon	<2ppb



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### Leak Detection Gas Types:

Gas Name	Capillary Inlet
Freon	<0.01g/Yr
Helium	<0.01g/Yr
Krypton	<0.01g/Yr
Xenon	<0.01g/Yr



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