

INTERFERENCE GASES TABLE REV 12 12-04-17

Remarks: 1)TLV (from ACGIH2007 version TLV Table) TLV-TWA (time-weight average). C-mark indicates TLV-C.
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Gas	Detection Principle	Detection range	TLV / COSMOS standard alarm set point	Gas concentration to reach TLV / COSMOS standard alarm set point				Operating condition							
								Temperature	Humidity						
SiH4 (CH3SiH3, (CH3)2SiH2)	Electrochemical	0-5 / 0-25pppm	5 ppm	H2	No interference at 2.0vol%	H2Se	5.5ppm	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)						
				Et-OH	Indicates 2.0ppm at 6.5vol%	HCl	No interference at 10ppm								
				IPA	Indicates 1.8ppm at 1.6vol%	NO	300.0ppm								
				AsH3	1.8ppm	NO2	5.5ppm*								
				B2H6	2.0ppm	PH3	1.2ppm								
				Cl2	21.0ppm*	Si2H6	4.9ppm								
				GeH4	6.0ppm	SiH2Cl2	33.0ppm								
				H2S	14.0ppm	SO2	37.0ppm								
				(CH3)3SiH	40.0ppm	CO	No interference at 2000ppm								
				(CH3)4Si	No interference at 10ppm	F2	14.0ppm*								
				CH3SiH3	5.5ppm	H2O2	No interference at 20ppm								
				O3	4.2ppm*	HT70	No interference at 6.0vol%								
				AsH3	Electrochemical	0 - 250ppb	50 ppb (TLV : 5 ppb)			B2H6	100 ppb	R32(CH2F2)	No interference at 3.0vol%	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
										GeH4	350 ppb	C5F8	Indicates 3ppb at 30ppm		
H2Se	60 ppb	C2H5OH	No interference at 1.0vol%												
PH3	50 ppb	H2O2	2.1 ppm												
Si2H6	430 ppb	IPA	No interference at 1.0vol%												
SiH4	460 ppb	CO	Indicates 70ppb at 5vol%												
SiH2Cl2	250 ppb	NO	6.0 ppm												
SF6	No interference at 3.0vol%	NO2	2.0 ppm*												
Cl2	0.31 ppm*	O3	1.2 ppm*												
F2	0.55 ppm*	SO2	0.50 ppm												
HCl	0.30 ppm	CH4	No interference at 3.0vol%												
R116(C2F6)	No interference at 3.0vol%	H2	1.9 vol%												
R14(CF4)	No interference at 3.0vol%	TEOS	No interference at 25ppm												
R23(CHF3)	No interference at 3.0vol%														

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								Temperature	Humidity
PH3	Electrochemical	0 - 1 ppm	0.3 ppm	H2 Et-OH IPA AsH3 B2H6 Cl2 GeH4 H2S CO F2 HFE-7100	No interference at 2.0vol% Indicates 0.3ppm at 6.1vol% Indicates 0.03ppm at 4.6vol% 0.3ppm 0.8ppm 3.4ppm* 2.4ppm 2.0ppm No interference at 1000ppm 3.4ppm* No interference at 3.0vol%	H2Se HCl NO NO2 O3 Si2H6 SiH4 SO2 HF H2O2 HT70	1.0ppm No interference at 240ppm No interference at 93ppm 1.4ppm* 0.6ppm 1.1ppm 2.0ppm 17.0ppm 3.0ppm No interference at 20ppm No interference at 6.0vol%	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
HF (SiF4, AsF3, AsF5, PF5, BF3, SF4, WF6, MoF6, GeF4)	Electrochemical	0 - 2.5 ppm	Responses based on 2.5ppm. TLV is now 0.5 ppm	H2 Et-OH IPA AsH3 B2H6 Cl2 GeH4 H2S Br2 C3H6O CH3OH CO F2	No interference at 2.0vol% Indicates 0.06ppm at 1.0vol% Indicates 0.12ppm at 1.0vol% No interference at 0.25ppm 28.0ppm* 1.2ppm No interference at 1.0ppm 2.1ppm* 1.6ppm Indicates 0.03ppm at 1.0vol% Indicates 0.02ppm at 1.0vol% No interference at 1000ppm 0.8ppm	H2Se HCl NO NO2 PH3 Si2H6 SiH2Cl2 SO2 H2O2 NH3 O3 SiH4 HBr	1.8ppm* 3.0ppm No interference at 5.0ppm 8.1ppm No interference at 0.5ppm 650ppm* 2.0ppm 2.7ppm Indicates 5.8ppm at 20ppm 1100ppm* 2.3ppm No interference at 10ppm 5.0 ppm	0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
B2H6	Electrochemical	0 - 500 ppb	0.1 ppm	H2 Et-OH IPA AsH3 Cl2 GeH4 H2S CO SO2	50.0vol% 6.0vol% 2.0vol% No interference at 0.25ppm 0.05ppm* No interference at 1.0ppm 0.48ppm 5.0vol% 2.3ppm	H2Se HCl NO NO2 O3 PH3 Si2H6 SiH2Cl2 SiH4	40.0ppb 10ppm* 500ppm* 0.37ppm* 0.7ppm* No interference at 0.5ppm 7.5ppm 2.5ppm No interference at 10ppm	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)

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								Temperature	Humidity
HCl (SiHCl ₃ , SiCl ₄ , AsCl ₃ , PCl ₃ , POCl ₃ , BCl ₃ , SnCl ₄)	Electrochemical	0-5 / 0-25ppm	C 2 ppm	H ₂ Et-OH IPA AsH ₃ B ₂ H ₆ Cl ₂ CO	No interference at 1000ppm No interference at 1.0vol% No interference at 1.0vol% 10.0ppm 75ppm No interference at 3.6ppm No interference at 1000ppm	H ₂ S NO ₂ SO ₂ HBr H ₂ O ₂ HT70 SiH ₂ Cl ₂	3.0ppm 5.0ppm* No interference at 10ppm 3.6ppm No interference at 20ppm No interference at 6.0vol% 6ppm	0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
Cl ₂	Electrochemical	0 - 5 ppm	0.5 ppm	H ₂ Et-OH IPA AsH ₃ B ₂ H ₆ Br ₂ HF	No interference at 1.0vol% No interference at 1.0vol% No interference at 1.0vol% No interference at 0.25ppm 43ppm* 0.75ppm 29ppm	NO ₂ O ₃ PH ₃ SiH ₄ H ₂ O ₂ HT70 F ₂	10.0ppm 4.7ppm No interference at 0.5ppm No interference at 0.5ppm No interference at 20ppm No interference at 6.0vol% 0.6ppm	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
O ₃	Electrochemical	0 - 1 ppm	0.1 ppm	H ₂ Et-OH IPA AsH ₃ B ₂ H ₆ Br ₂	No interference at 1.0vol% No interference at 1.0vol% No interference at 1.0vol% No interference at 0.25ppm 4.6ppm* 0.02ppm	Cl ₂ PH ₃ SiH ₄	0.01ppm No interference at 0.5ppm No interference at 10ppm	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
NH ₃	Electrochemical	0 - 100 ppm	25 ppm	H ₂ Et-OH CH ₃ OH AsH ₃ Cl ₂ CO H ₂ S HFE-7100	Indicates 0.21ppm at 2.0vol% Indicates 1.6ppm at 1.0vol% No interference at 1.0vol% No interference at 0.25ppm No interference at 1.0vol% 9.6vol% 23ppm No interference at 3.0vol%	HF NO NO ₂ PH ₃ SiH ₄ SO ₂ H ₂ O ₂ HT-70	No interference at 3.0ppm 250ppm 250ppm No interference at 0.5ppm No interference at 10ppm 23ppm No interference at 20ppm No interference at 6.0vol%	0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)

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								Temperature	Humidity
GeH4	Electrochemical	0 - 1 ppm	0.2 ppm	H2 Et-OH IPA AsH3 Cl2 CH4 H2Se TEOS	8600ppm No interference at 1.0vol% No interference at 1.0vol% 28ppb 200ppb* No interference at 3.0vol% 36ppb No interference at 25ppm	B2H6 NO NO2 PH3 SiH4 SO2 H2O2 HCl	58ppb 4.9ppm 1.9ppm* 28ppb 260ppb 790ppb 420ppb 220ppb	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
CO	Electrochemical	0 - 250 ppm	25 ppm	H2 Et-OH IPA C2H2 Ar CO2 H2S TEOS	1300ppm No interference at 100ppm No interference at 1.4vol% No interference at 50ppm No interference at 3000ppm No interference at 2.0vol% No interference at 1ppm No interference at 25ppm	SiH2Cl2 NO NO2 PH3 SiH4 SO2 CH4 C3H8	Indicates 10ppm at 2000ppm 5ppm No interference at 0.5ppm Indicates 10ppm at 45ppm 25ppm 2ppm No interference at 3.0vol% No interference at 1000ppm	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
H2Se	Electrochemical	0 - 250 ppb	50 ppb	H2 CO IPA NO NO2 SO2 CH3SH H2O2 Et-OH O3	1.55 vol% 1.4 vol% No interference at 1.0 vol% 95ppm 0.092ppm* 4.8ppm 0.05ppm 0.37ppm No interference at 1.0 vol% 0.092ppm*	SiH2Cl2 AsH3 GeH4 PH3 SiH4 Si2H6 B2H6 F2 HCl H2S	0.2ppm 0.04ppm 0.28ppm 0.04ppm 0.37ppm 0.34ppm 0.08ppm 0.48ppm* 0.33ppm 0.027ppm	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)

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								Temperature	Humidity
H2S	Electrochemical	0 - 50 ppm	10 ppm	H2	10.0 vol%	HF	1.37 vol%	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
				CO	3000ppm	AsH3	36ppm		
				C2H2	4.0 vol%	I-C4H10	Indicate 1ppm at 100 vol%		
				NO	600ppm	PH3	30ppm		
				NO2	50ppm*	SiH4	180ppm		
				SO2	100ppm	Cl2	70ppm*		
				CH3SH	20ppm	B2H6	110ppm		
				(CH3)2S	60ppm	NH3	No interference at 30ppm		
				Et-OH	0.6 vol%	CO2	No interference at 1 vol%		
				CH3OH	1.3 vol%	C2H4	10 vol%		
				C3H8	Indicate 1ppm at 13 vol%	CH4	No interference at 1 vol%		
				C3H6O	No interference at 100ppm	C2H5SH	13ppm		
				C6H4(CH3)2	No interference at 100ppm	HCN	4900ppm		
				C6H5CH3	No interference at 100ppm	(CH3S)2	30ppm		
C6H6	No interference at 100ppm								
F2	Electrochemical	0 - 5 ppm	1 ppm	H2	3.4 vol%*	HF	No interference at 100ppm	0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
				CO	3200ppm*	AsH3	0.62ppm*		
				C2F6(R116)	No interference at 3.0 vol%	ClF3	1.3ppm		
				NO	290ppm	PH3	0.38ppm*		
				NO2	3.0ppm	SiH4	91ppm*		
				SO2	450ppm*	Cl2	2.0ppm		
				CH3SH	30ppm*	B2H6	7.0ppm*		
				H2S	3.2ppm*	SiH2Cl2	Indicate 0.35ppm* at 1ppm		
				Et-OH	No interference at 20°C S.V.	HCl	87ppm*		
				IPA	No interference at 25°C S.V.	O3	2.0ppm		
				TEOS	No interference at 25ppm	CH4	No interference at 3 vol%		
				C3H6O	No interference at 20°C S.V.	CF4(R14)	No interference at 3 vol%		
				CHCl=CCl2	No interference at 20°C S.V.	CHF3(R23)	No interference at 3 vol%		
				C5F8	No interference at 30ppm	CH2F2(R32)	No interference at 3 vol%		
				SF6	No interference at 3.0 vol%	HCN	290ppm		
				Br2	6.0ppm				

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NF3	Electrochemical (w/pyrolyzer)	0 - 100 ppm	10 ppm	H2 CO IPA C5F8 HF SF6 NH3 TEOS H2Se CH2F2 CF4	2600ppm* Indicates -4ppm at 100ppm No interference at 4000ppm No interference at 30ppm No interference at 4ppm No interference at 3.0vol% 52ppm No interference at 25ppm No interference at 0.25ppm No interference at 3.0vol% No interference at 3.0vol%	SiH2Cl2 AsH3 GeH4 PH3 SiH4 Si2H6 B2H6 CH4 CHF3 C2F6	Indicates -2ppm at 0.1ppm No interference at 0.25ppm No interference at 1ppm Indicates -5ppm at 0.01ppm 6.8ppm* No interference at 2.5ppm No interference at 0.5ppm No interference at 3.0vol% No interference at 3.0vol% No interference at 3.0vol%	0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
HBr	Electrochemical	0 - 10 ppm	C 2 ppm	AsH3 GeH4 Si2H6 B2H6 H2Se PH3 SiH4 SiH2Cl2 HF F2 HCl Cl2 Br2 R32(CH2F2) R14(CF4) R23(CHF3)	3.7 ppm 15 ppm 15 ppm 28 ppm 1.5 ppm 0.7 ppm 28 ppm 1 ppm No interference at 5ppm 7.4 ppm* 1.9 ppm 8.2 ppm* 22 ppm* No interference at 3.0vol% No interference at 3.0vol% No interference at 3.0vol%	R116(C2F6) NH3 IPA C2H5OH CO NO2 SO2 i-C4H10 C3H8 CH4 H2 CH3H60 C6H4(CH3)2 C6H5CH3 H2S	No interference at 3.0vol% No interference at 50ppm No interference at 1.0vol% No interference at 1.0vol% No interference at 1000ppm 1.9 ppm* No interference at 10ppm No interference at 1.0vol% No interference at 1.0vol% No interference at 1000ppm No interference at 3.0vol% No interference at 3.0vol% No interference at 3.0vol% 1.1 ppm	0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
NO	Electrochemical	0-10/0-100 ppm	25ppm	PH3 SiH2Cl2 C5F8 R14(CF4) R116(C2F6) C2H5OH NO2 CH4 TEOS	Indicates 11ppm at 10ppm Indicates 7ppm at 20ppm No interference at 30ppm No interference at 3.0vol% No interference at 3.0vol% No interference at 3.5vol% 630ppm No interference at 3.0vol% No interference at 25ppm	SiH4 SF6 R32(CH2F2) R23(CHF3) IPA CO SO2 H2 H2S	Indicates 2ppm at 20ppm No interference at 3.0vol% No interference at 3.0vol% No interference at 3.0vol% No interference at 1.0vol% 10vol% 950ppm No interference at 4.0vol% 60ppm	-5 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)

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NO2	Electrochemical	0 - 10 ppm	3 ppm	AsH3	0.68 ppm*	Cl2	6.9 ppm	0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
				GeH4	5.0 ppm*	IPA	Indicate 1.2ppm at 4.58vol%		
				Si2H6	2.3 ppm*	Et-OH	Indicate 1.8ppm at 6.16vol%		
				B2H6	1.8 ppm*	O3	1.3 ppm		
				H2Se	2.1 ppm*	CO	No interference at 2,000ppm		
				PH3	0.62 ppm*	NO	No interference at 92.8ppm		
				SiH4	4.2 ppm*	SO2	35 ppm*		
				F2	7.0 ppm	H2	No interference at 2.0vol%		
				HCl	480 ppm*	H2S	4.2 ppm*		
				ClF3	Electrochemical	0 - 1 ppm	C 0.1 ppm		
B2H6	0.55 ppm*	Et-OH	No interference at 3.5vol%						
PH3	0.03 ppm*	H2O2	10 ppm						
SiH4	7.4 ppm*	O3	0.18 ppm						
SiH2Cl2	Indicate -0.06ppm at 0.2ppm	CO	260 ppm*						
SF6	No interference at 3vol%	NO	29 ppm						
HF	40 ppm	NO2	0.85 ppm						
HCl	7.0 ppm*	SO2	36 ppm*						
Cl2	0.16 ppm	CH4	No interference at 3.0vol%						
Br2	0.37 ppm	H2	2,700ppm*						
C5F8	No interference at 30ppm	TEOS	No interference at 25ppm						
R32(CH2F2)	No interference at 3.0vol%	HCN	23 ppm						
R14(CF4)	No interference at 3.0vol%	CH3SH	2.4 ppm*						
R23(CHF3)	No interference at 3.0vol%	H2S	0.26ppm*						
R116(C2F6)	No interference at 3.0vol%								
SiH2Cl2	Electrochemical	0 - 25 ppm	5 ppm (TLV : N/A)					AsH3	1.0 ppm
				GeH4	7.0 ppm	R23(CHF3)	No interference at 3.0vol%		
				Si2H6	8.5 ppm	R116(C2F6)	No interference at 3.0vol%		
				B2H6	2.0 ppm	IPA	No interference at 1.0vol%		
				H2Se	1.3 ppm	Et-OH	No interference at 3.5vol%		
				PH3	1.0 ppm	H2O2	27 ppm		
				SiH4	9.0 ppm	CO	Indicate 1.0ppm at 5.0vol%		
				SF6	No interference at 3.0vol%	NO	4.0 ppm		
				F2	9.0 ppm*	NO2	320 ppm		
				HCl	16 ppm	CH4	No interference at 3.0vol%		
				C5F8	No interference at 30 ppm	H2	90vol%		
				R32(CH2F2)	No interference at 3.0vol%	TEOS	No interference at 25ppm		

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PF3	Electrochemical	0 - 10 ppm	3 ppm (TLV : 2.5mg/m ³ TWA as F)	AsH3 0.08 ppm GeH4 0.6 ppm Si2H6 0.72 ppm B2H6 0.18 ppm PH3 0.08 ppm	SiH4 1.2 ppm SiH2Cl2 0.2 ppm IPA 6,000ppm H2 3.6vol% C6H6 3.6vol%			0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
SO2	Electrochemical	0 - 10 ppm	2 ppm	PH3 Indicate 6.7ppm at 1ppm SiH4 Indicate 4.1 ppm at 2ppm SiH2Cl2 Indicate 2.5ppm at 2ppm SF6 No interference at 3vol% HF No interference at 10ppm HCl No interference at 25ppm Cl2 3.3ppm* C5F8 No interference at 30ppm R32(CH2F2) No interference at 3vol% R14(CF4) No interference at 3vol% R23(CHF3) No interference at 3vol% R116(C2F6) No interference at 3.0vol% NH3 No interference at 100ppm	IPA 100ppm Et-OH 90ppm CH3OH 90ppm CO 14ppm NO No interference at 250ppm CO2 No interference at 10vol% NO2 1.6ppm* C2H2 80ppm CH4 No interference at 3.0vol% H2 70ppm* TEOS Indicate 5.5ppm at 5ppm C3H6O No interference at 1000ppm H2S 0.7ppm*			0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
(CH3)2NH	Electrochemical	0 - 25 ppm	5 ppm	NH3 5ppm* CO No interference at 1000ppm H2 No interference at 2vol% H2S 100ppm* NO 750ppm* NO2 510ppm* SO2 15ppm* C2H5OH No interference at 1vol% C3H8O 10vol%* Cl2 -100ppm* H2O2 1.4vol%* O3 60ppm*	(CH3)3N 5ppm (C2H5)2NH 8ppm*			0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)

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Si2H6	Electrochemical	0 - 25 ppm	5 ppm	AsH3	0.60ppm	R32 (CH2F2)	No interference at 3vol%	0 ~ 40°C (Steady state)	30 ~ 85%RH (Steady state)
				B2H6	1.2ppm	R23(CHF3)	No interference at 3vol%		
				GeH4	4.1ppm	C2H5OH	No interference at 1vol%		
				H2Se	0.75ppm	H2O2	23ppm		
				PH3	0.60ppm	HFE7100	No interference at 3vol%		
				SiH4	5.5ppm	HFE7200	Indicate 2.0ppm at 2vol%		
				SiH2Cl2	3.0ppm	HT70	No interference at 3vol%		
				SF6	No interference at 3vol%	IPA	No interference at 1vol%		
				HCl	7.5ppm	CO	Indicate 0.5ppm at 5vol%		
				C5F8	No interference at 30ppm	NO	Indicate 26ppm at 9ppm		
				R116 (C2F6)	No interference at 3vol%	NO2	No interference at 1.4ppm		
				R14(CF4)	No interference at 3vol%	O3	Indicate 1.6ppm* at 0.6ppm		
				CH4	No interference at 3vol%	SO2	Indicate 3.0ppm at 5ppm.		
				H2	No interference at 2vol%	H2S	Indicate 78ppm at 10ppm. (Over full scale)		