

# GAS MIXTURES



Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number	
Propane or Propylene	5 to 99 ppm	Nitrogen	7.9	G	AS 2473 TYPE 20	UN 1956	
			1.5	D			
	100 to 999ppm		7.9	G			
			1.5	D			
			0.1% to 0.3%	7.9			G
1.5	D						
Sulfur Dioxide	1 to 9 ppm	Air	7.9	G	AS 2473 TYPE 44	UN 1956	
			1.5	D			
	10 to 999ppm		7.7	G			
			1.6	D			
			0.1% to 1.5%	7.7			G
1.6	D						
Sulfur Dioxide	1 to 9 ppm	Argon	8.5	G	AS 2473 TYPE 44	UN 1956	
			1.7	D			
	10 to 999ppm		8.3	G			
			1.6	D			
			0.1% to 1.5%	8.3			G
1.6	D						
Sulfur Dioxide	1 to 9 ppm	Helium	7.3	G	AS 2473 TYPE 44	UN 1956	
			1.4	D			
	10 to 999ppm		7.2	G			
			1.4	D			
			0.1% to 1.5%	7.2			G
1.4	D						
Sulfur Dioxide	1 to 9 ppm	Nitrogen	7.9	G	AS 2473 TYPE 44	UN 1956	
			1.5	D			
	10 to 999ppm		7.6	G			
			1.5	D			
			0.1% to 1.5%	7.6			G
1.5	D						
Sulfur Dioxide	10 to 99 ppm	EPA Protocol Mixtures : Air	4.05	30 AL	CGA 660	UN 1956	
			0.93	7 AL			
	100 to 999ppm		4.05	30 AL			
			0.93	7 AL			
Sulfur Dioxide	10 to 99 ppm	EPA Protocol Mixtures : Nitrogen	4.02	30 AL	CGA 660	UN 1956	
			0.91	7 AL			
	100 to 999ppm		4.02	30 AL			
			0.91	7 AL			
			0.1% to 1%	4.02			30 AL
				0.91			7 AL
Toluene	1 to 49 ppm	Air	4.05	30 AL	CGA 660	UN 1956	
			0.93	7 AL			
	50 to 99 ppm		4.05	30 AL			
			0.93	7 AL			
			100 to 1000	4.05			30 AL
0.93	7 AL						

# GAS MIXTURES



Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number				
Acetylene	5 to 49 ppm	Ethylene	1.9	G	AS 2473 TYPE 20	UN 1954				
			.38	D						
	50 to 999 ppm		1.9	G						
			.38	D						
Acetylene	0.1 to 0.75%		1.9	G						
			.38	D						
	Acetylene		5 to 49ppm	Helium			7.2	G	AS 2473 TYPE 20	UN 1954
							3.5	E		
		1.4	D							
		7.2	G							
Acetylene	50 to 999 ppm		3.5	E						
			1.4	D						
			7.2	G						
			3.5	E						
Acetylene	0.1 ro 0.75%		1.4	D						
	Acetylene		5 to 49 ppm	Methane			5.8	G	AS 2473 TYPE 20	UN 1954
							1.2	D		
			50 to 999 ppm				5.8	G		
		1.2	D							
Acetylene	0.1 to 0.75%		5.8	G						
			1.2	D						
	Acetylene		5 to 49 ppm	Nitrogen			7.6	G	AS 2473 TYPE 20	UN 1954
							3.2	E		
		1.5	D							
		7.6	G							
Acetylene	50 to 999 ppm		3.2	E						
			1.5	D						
			7.6	G						
			3.2	E						
Acetylene	0.1 to 0.75%		1.5	D						
			7.6	G						
			3.2	E						
			1.5	D						
Ammonia	100 to 999 ppm	Argon	7.2	G	AS 2473 TYPE 15	UN 1956				
			1.4	D						
Ammonia	0.1% to 0.5%	Helium	7.2	G	AS 2473 TYPE 15	UN 1956				
			1.4	D						
Ammonia	0.1% to 0.5%	Hydrogen	7.0	G	AS 2473 TYPE 15	UN 1954				
			1.3	D						
Ammonia	0.1% to 0.5%	Nitrogen	7.6	G	AS 2473 TYPE 15	UN 1956				
			1.4	D						

# GAS MIXTURES



Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Argon	5 to 99 ppm	Helium	5.61	44	CGA 580  AS 2473 TYPE 10	UN 1956
	500 to 9999		2.07	16		
			7.2	G		
	1 to 49%		3.5	E		
			1.4	D		
			7.2	G		
3.5		E				
1.4	D					
Argon	5 to 99 ppm	Hydrogen	5.52	44	CGA 350  AS 2473 TYPE 20	UN 1954
	500 to 9999		2.04	16		
			6.0	G		
	1 to 49%		2.9	E		
			1.2	D		
			6.0	G		
2.9		E				
1.2	D					
Argon	5 to 99 ppm	Nitrogen	5.89	44	CGA 580  AS 2473 TYPE 20	UN 1956
	500 to 9999		2.15	16		
			7.6	G		
	1 to 49%		3.8	E		
			1.5	D		
			7.6	G		
3.8		E				
1.5	D					
Benzene	1 to 9 ppm	Air	4.05	30 AL	CGA 590	UN 1956
	10 to 99 ppm		0.94	7 AL		
			4.05	30 AL		
	100 to 1000		0.94	7 AL		
			4.05	30 AL		
			0.94	7 AL		
4.05		7 AL				
Benzene	1 to 9 ppm	Argon	4.33	30 AL	CGA 350	UN 1956
	10 to 99 ppm		0.99	7 AL		
			4.33	30 AL		
	100 to 1000		0.99	7 AL		
			4.33	30 AL		
			0.99	7 AL		
4.33		7 AL				
Benzene	1 to 9 ppm	Helium	3.82	30 AL	CGA 350	UN 1956
	10 to 99 ppm		0.88	7 AL		
			3.82	30 AL		
	100 to 1000		0.88	7 AL		
			3.82	30 AL		
			0.88	7 AL		
3.82		7 AL				
Benzene	1 to 9 ppm	Hydrogen	3.77	30 AL	CGA 350	UN 1954
	10 to 99 ppm		0.85	7 AL		
			3.77	30 AL		
	100 to 1000		0.85	7 AL		
			3.77	30 AL		
			0.85	7 AL		
3.77		7 AL				

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Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Benzine	1 to 9 ppm	Nitrogen	3.77	30 AL	CGA 350	UN 1956
	10 to 99 ppm		0.85	7 AL		
	100 to 1000		3.77	30 AL		
n- Butane	5 to 999 ppm	Argon	0.85	7 AL	AS 2473 TYPE 20	UN 1956
	0.1% to 1.0%		3.77	30 AL		
			0.85	7 AL		
n- Butane	5 to 999 ppm	Helium	3.77	30 AL	AS 2473 TYPE 20	UN 1956
	0.1% to 1.0%		0.85	7 AL		
			3.77	30 AL		
n- Butane	5 to 999 ppm	Hydrogen	0.85	7 AL	AS 2473 TYPE 20	UN 1954
	0.1% to 1.0%		3.77	30 AL		
			0.85	7 AL		
n- Butane	5 to 999 ppm	Nitrogen	3.77	30 AL	AS 2473 TYPE 20	UN 1956
	0.1% to 1.0%		0.85	7 AL		
			3.77	30 AL		
Carbon Dioxide	10 to 49 ppm	Air	7.7	G	AS 2473 TYPE 10	UN 1956
	50 to 999 ppm		3.8	E		
			1.5	D		
	0.1% to 30%		7.7	G		
			3.8	E		
			1.5	D		
Carbon Dioxide	10 to 49 ppm	Argon	7.7	G	AS 2473 TYPE 10	UN 1956
	50 to 999 ppm		3.8	E		
			1.5	D		
	0.1% to 30%		7.7	G		
			3.8	E		
			1.5	D		
Carbon Dioxide	10 to 49 ppm	Helium	7.2	G	AS 2473 TYPE 10	UN 1956
	50 to 999 ppm		3.5	E		
			1.4	D		
	0.1% to 30%		7.2	G		
			3.5	E		
			1.4	D		

# GAS MIXTURES



Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number				
Carbon Dioxide	10 to 49 ppm	Hydrogen	6.0	G	AS 2473 TYPE 20	UN 1954				
			2.9	E						
			1.3	D						
	50 to 999 ppm		6.0	G						
			2.9	E						
			1.3	D						
	0.1% to 30%		6.0	G						
			2.9	E						
			1.3	D						
Carbon Dioxide	10 to 49 ppm	Nitrogen	7.7	G	AS 2473 TYPE 10	UN 1956				
			3.7	E						
			1.5	D						
	50 to 999 ppm		7.7	G						
			3.7	E						
			1.5	D						
	0.1% to 30%		7.7	G						
			3.7	E						
			1.5	D						
Carbon Dioxide	10 to 49 ppm	Oxygen	8.3	G	AS 2473 TYPE 10	UN 1014				
			4.1	E						
			1.7	D						
	50 to 999 ppm		8.3	G						
			4.1	E						
			1.7	D						
	0.1% to 30%		8.3	G						
			4.1	E						
			1.7	D						
Carbon Dioxide	100 to 9999	EPA Protocol Mixtures : Nitrogen	4.02	30 AL	CGA 580	UN 1956				
	1% to 20%		0.91	7 AL						
			4.02	30 AL						
			0.91	7 AL						
Carbon Monoxide	1 to 9 ppm	Air	6.6	G	AS 2473 TYPE 20	UN 1956				
	10 to 999 ppm		1.3	D						
			7.7	G						
			3.8	E						
	0.1% to 3%		1.6	D						
			6.6	G						
			1.3	D						
	Carbon Monoxide		1 to 9 ppm	Argon			7.7	G	AS 2473 TYPE 20	UN 1956
			10 to 999 ppm				1.6	D		
7.7		G								
3.8		E								
0.1% to 3%		1.6	D							
		7.7	G							
		1.6	D							

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Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Carbon Monoxide	1 to 9 ppm	Helium	7.2	G	AS 2473 TYPE 20	UN 1956
	10 to 999 ppm		1.4	D		
			7.2	G		
	0.1% to 3%		3.5	E		
			1.4	D		
			7.2	G		
1.4	D					
Carbon Monoxide	1 to 9 ppm	Hydrogen	5.9	G	AS 2473 TYPE 20	UN 1954
	10 to 999 ppm		1.2	D		
			5.9	G		
	0.1% to 3%		2.9	E		
			1.2	D		
			5.9	G		
1.2	D					
Carbon Monoxide	1 to 9 ppm	Nitrogen	7.6	G	AS 2473 TYPE 20	UN 1956
	10 to 999 ppm		1.5	D		
			7.6	G		
	0.1% to 3%		3.7	E		
			1.5	D		
			7.6	G		
1.5	D					
Carbon Monoxide	0.5 to 9.9 ppm	EPA Protocol Mixtures : Air	4.05	30 AL	CGA 590	UN 1956
	10 to 99 ppm		0.93	7 AL		
			4.05	30 AL		
	100 to 999 ppm		0.93	7 AL		
			4.05	30 AL		
	0.1% to 3%		0.93	7 AL		
4.05	30 AL					
0.93	7 AL					
Carbon Monoxide	0.5 to 9.9 ppm	EPA Protocol Mixtures : Nitrogen	4.05	30 AL	CGA 590	UN 1956
	10 to 99 ppm		0.93	7 AL		
			4.05	30 AL		
	100 to 999 ppm		0.93	7 AL		
			4.05	30 AL		
	0.1% to 1.0%		0.93	7 AL		
4.05	30 AL					
0.93	7 AL					
Chlorine	50 to 999 ppm	Argon	6.34	44	CGA 330	UN 1956
	0.1% to 3.5%		2.32	16		
			6.34	44		
			2.32	16		
Chlorine	50 to 999 ppm	Helium	5.61	44	CGA 330	UN 1956
	0.1% to 3.5%		2.07	16		
			5.61	44		
			2.07	16		
Chlorine	50 to 999 ppm	Nitrogen	5.89	44	CGA 330	UN 1956
	0.1% to 3.5%		2.15	16		
			5.89	44		
			2.15	16		

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Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Ethane or Ethylene	5 to 99 ppm	Air	7.9	G	AS 2473 TYPE 20	UN 1956
			1.5	D		
	100 to 999ppm		7.9	G		
	1.5		D			
	0.1% to 0.56%		7.9	G		
1.5	D					
Ethane or Ethylene	5 to 99 ppm	Argon	8.5	G	AS 2473 TYPE 20	UN 1956
			1.7	D		
	100 to 999ppm		8.5	G		
	1.7		D			
	0.1% to 15%		6.4	G		
1.2	D					
Ethane or Ethylene	5 to 99 ppm	Helium	7.3	G	AS 2473 TYPE 20	UN 1956
			1.4	D		
	100 to 999ppm		7.3	G		
	1.4		D			
	0.1% to 15%		5.8	G		
1.1	D					
Ethane or Ethylene	5 to 99 ppm	Hydrogen	6.0	G	AS 2473 TYPE 20	UN 1954
			1.2	D		
	100 to 999ppm		6.0	G		
	1.2		D			
	0.1% to 15%		5.7	G		
1.1	D					
Ethane or Ethylene	5 to 99 ppm	Nitrogen	7.7	G	AS 2473 TYPE 20	UN 1956
			1.5	D		
	100 to 999ppm		7.7	G		
	1.5		D			
	0.1% to 15%		5.0	G		
1.2	D					
Helium	10 to 999ppm	Argon	8.3	G	AS 2473 TYPE 10	UN 1956
			3.9	E		
	0.1% to 9.9%		1.6	D		
			8.3	G		
			3.9	E		
	10% to 49%		1.6	D		
			8.3	G		
3.9	E					
1.6	D					
Helium	10 to 999ppm	Hydrogen	5.9	G	AS 2473 TYPE 20	UN 1954
			2.9	E		
	0.1% to 9.9%		1.2	D		
			5.9	G		
			2.9	E		
	10% to 49%		1.2	D		
			5.9	G		
2.9	E					
1.2	D					

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Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number			
Helium	10 to 999ppm	Nitrogen	7.6	G	AS 2473 TYPE 10	UN 1956			
	0.1% to 9.9%		3.7	E					
			1,5	D					
10% to 49%			7.6	G					
			3.7	E					
			1,5	D					
Helium	10 to 999ppm	Oxygen	8.3	G	AS 2473 TYPE 10	UN 1980			
	0.1% to 9.9%		4.1	E					
			1.7	D					
10% to 49%			8.3	G					
			4.1	E					
			1.7	D					
n-Hexane	1 to 99 ppm	Air	7.0	G	AS 2473 TYPE 20	UN 1956			
	100 to 999ppm		1.5	D					
			1.5	G					
0.3			0.3	D					
			n-Hexane	1 to 99 ppm	Argon	8.5	G	AS 2473 TYPE 20	UN 1956
				100 to 999ppm		1.7	D		
1.5	G								
0.3			0.3	D					
			n-Hexane	1 to 99 ppm	Helium	7.3	G	AS 2473 TYPE 20	UN 1956
				100 to 999ppm		1.4	D		
1.4	G								
0.5			0.5	D					
			n-Hexane	1 to 99 ppm	Hydrogen	5.9	G	AS 2473 TYPE 10	UN 1954
				100 to 999ppm		1.4	D		
1.4	G								
0.3			0.3	D					
			n-Hexane	1 to 99 ppm	Nitrogen	7.7	G	AS 2473 TYPE 20	UN 1956
				100 to 999ppm		1.5	D		
1.5	G								
0.3			0.3	D					
			Hydrogen	5 to 99 ppm	Air	7.7	G	AS 2473 TYPE 20	UN1956
				100 to 999ppm		3.6	E		
1.5	D								
0.1% to 2.95%			7.7	G					
			3.6	E					
			1.5	D					
			7.7	G					
			3.6	E					
			1.5	D					

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Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Hydrogen	5 to 99 ppm	Argon	8.3	G	AS 2473 TYPE 20	< 2.93% UN 1956 > 2.93% UN 1954
			3.5	E		
			1.6	D		
	100 to 999ppm		8.3	G		
			3.5	E		
			1.6	D		
	0.1% to 2.95%		8.3	G		
			3.5	E		
			1.6	D		
Hydrogen	5 to 99 ppm	Helium	7.2	G	AS 2473 TYPE 20	< 8.7% UN 1956 > 8.7% UN 1954
			3.3	E		
			1.4	D		
	100 to 999ppm		7.2	G		
			3.3	E		
			1.4	D		
	0.1% to 2.95%		7.2	G		
			3.3	E		
			1.4	D		
Hydrogen	5 to 99 ppm	Nitrogen	7.6	G	AS 2473 TYPE 20	< 5.7% UN 1956 > 5.7% UN 1954
			3.3	E		
			1.4	D		
	100 to 999ppm		7.6	G		
			3.3	E		
			1.4	D		
	0.1% to 2.95%		7.6	G		
			3.3	E		
			1.4	D		
Hydrogen Sulfide	10 to 99 ppm	Argon	8.5	G	BS341	< 2.2% UN 1956 > 2.2% UN 1954
	100 to 999ppm		1.7	D		
			8.3	G		
			1.7	D		
			4.1	G		
0.1% to 9%	0.8	D				
Hydrogen Sulfide	10 to 99 ppm	Helium	7.3	G	BS341	< 2.92% UN 1956 > 2.92% UN 1954
	100 to 999ppm		1.4	D		
			8.3	G		
			1.7	D		
			3.8	G		
0.1% to 9%	0.7	D				
Hydrogen Sulfide	10 to 99 ppm	Hydrogen	5.9	G	BS341	UN 1954
	100 to 999ppm		1.1	D		
			5.9	G		
			1.2	D		
			3.8	G		
0.1% to 9%	0.7	D				
Hydrogen Sulfide	10 to 99 ppm	Nitrogen	7.5	G	BS341	< 4.5% UN 1956 > 4.3% UN 1954
	100 to 999ppm		1.5	D		
			7.6	G		
			1.5	D		
			4.0	G		
0.1% to 9%	0.8	D				

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Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Methane	1 to 49 ppm 50 ppm to 1%	Air	7.9	G	AS 2473 TYPE 20	UN 1956
			1.5	D		
			9.4	G		
			4.5	E		
			1.9	D		
Methane	1 to 49 ppm 50 to 99 ppm 10% to 50%	Argon	8.5	G	AS 2473 TYPE 20	< 9.18% UN 1956 > 9.18% UN 1954
			1.7	D		
			9.4	G		
			4.5	E		
			1.9	D		
			9.4	G		
			4.5	E		
1.9	D					
Methane	1 to 49 ppm 50 to 99 ppm 10% to 50%	Helium	7.3	G	AS 2473 TYPE 20	< 12% UN 1956 > 12% UN 1954
			1.4	D		
			9.4	G		
			4.5	E		
			1.9	D		
			9.4	G		
			4.5	E		
1.9	D					
Methane	1 to 49 ppm 50 to 99 ppm 10% to 50%	Hydrogen	5.9	G	AS 2473 TYPE 20	UN 1954
			1.1	D		
			5.7	G		
			2.7	E		
			1.1	D		
			5.7	G		
			2.7	E		
1.1	D					
Methane	1 to 49 ppm 50 to 99 ppm 10% to 50%	Nitrogen	7.7	G	AS 2473 TYPE 20	< 14.3% UN 1956 > 14.3% UN 1954
			1.5	D		
			9.4	G		
			4.5	E		
			1.9	D		
			9.4	G		
			4.5	E		
1.9	D					
Methyl Mercaptan	1 to 9 ppm 10 to 49 ppm 50 to 999ppm 0.1% to 1.0%	Helium	3.8	30 AL	CGA 330	UN 1956
			1.0	7 AL		
			3.8	30 AL		
			1.0	7 AL		
			3.8	30 AL		
			1.0	7 AL		
			3.8	30 AL		
1.0	7 AL					

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Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Methyl Mercaptan	1 to 9 ppm	Nitrogen	4.0	30 AL	CGA 330	UN 1956
			1.0	7 AL		
	10 to 49 ppm		4.0	30 AL		
			1.0	7 AL		
	50 to 999ppm		4.0	30 AL		
			1.0	7 AL		
	0.1% to 1.0%		4.0	30 AL		
			1.0	7 AL		
Nitric Oxide	5 to 9 ppm	Argon	8.5	G	AS 2473 TYPE 44	< 2.3% UN 1956
			1.7	D		
	10 to 99 ppm		8.5	G	CGA 660	> 2.3% UN 1955
			1.7	D		
	100ppm to 10%		3.91	30 AL		
			0.91	7 AL		
Nitric Oxide	5 to 9 ppm	Helium	7.3	G	AS 2473 TYPE 44	< 2.3% UN 1956
			1.4	D		
	10 to 99 ppm		7.3	G	CGA 660	> 2.3% UN 1955
			1.4	D		
	100ppm to 10%		3.46	30 AL		
			0.79	7 AL		
Nitric Oxide	5 to 9 ppm	Nitrogen	7.7	G	AS 2473 TYPE 44	< 2.3% UN 1956
			1.5	D		
	10 to 99 ppm		7.7	G	CGA 660	> 2.3% UN 1955
			1.4	D		
	100ppm to 10%		3.63	30 AL		
			0.82	7 AL		
Nitric Oxide	5 to 9 ppm	EPA Protocol Mixtures : Nitrogen	3.63	30 AL	CGA 660	< 2.3% UN 1956
			0.82	7 AL		
	10 to 99 ppm		3.63	30 AL		
			0.82	7 AL		
	100ppm to 10%		3.63	30 AL		
			0.82	7 AL		
Nitrogen	10 to 999ppm	Argon	8.3	G	AS 2473 TYPE 10	UN 1956
			3.9	E		
			1.6	D		
	0.1% to 49%		8.3	G		
			3.9	E		
			1.6	D		
Nitrogen	10 to 999ppm	Hydrogen	7.2	G	AS 2473 TYPE 10	UN 1956
			3.3	E		
			1.4	D		
	0.1% to 49%		7.2	G		
			3.3	E		
			1.4	D		

# GAS MIXTURES



Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Nitrogen	10 to 999ppm  0.1% to 49%	Hydrogen	5.9	G	AS 2473 TYPE 20	UN 1954
			2.9	E		
			1.2	D		
			5.9	G		
			2.9	E		
			1.2	D		
Nitrogen	10 to 999ppm  0.1% to 49%	Oxygen	7.9	G	AS 2473 TYPE 10	Un 3156
			3.9	E		
			1.6	D		
			7.9	G		
			3.9	E		
			1.6	D		
Nitrogen Dioxide	5 to 49 ppm  50 to 99 ppm  500ppm to 1%	Air	7.9	G	AS 2473 TYPE 44	UN 1956
			1.5	E		
			7.9	D		
			1.5	G		
			0.9	E		
			0.2	D		
Nitrogen Dioxide	5 to 49 ppm  50 to 99 ppm  500ppm to 1%	Argon	8.5	G	AS 2473 TYPE 44	UN 1956
			1.7	E		
			8.5	D		
			1.7	G		
			1.0	E		
			0.2	D		
Nitrogen Dioxide	5 to 49 ppm  50 to 99 ppm  500ppm to 1%	Helium	3.46	30 AL	CGA 660	UN 1956
			0.79	7 AL		
			3.46	30 AL		
			0.79	7 AL		
			3.46	30 AL		
			0.79	7 AL		
Nitrogen Dioxide	5 to 49 ppm  50 to 99 ppm  500ppm to 1%	Nitrogen	7.9	G	CGA 660	UN 1956
			1.5	D		
			7.9	G		
			1.5	D		
			0.9	G		
			0.2	D		
Oxygen	5 to 99 ppm	Argon	8.3	G	AS 2473 TYPE 10	< 23% UN 1956 > 23% UN 3156
			4.1	E		
			1.7	D		
			1.7	D		
	100 to 999ppm		8.3	G		
			4.1	E		
			1.7	D		
			1.7	D		
	0.1% to 50%		8.3	G		
			4.1	E		
			1.7	D		
			1.7	D		

# GAS MIXTURES



Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Oxygen	5 to 99 ppm	Helium	7.2	G	AS 2473 TYPE 10	< 23% UN 1956 > 23% UN 3156
			3.5	E		
			1.4	D		
	100 to 999ppm		7.2	G		
			3.5	E		
			1.4	D		
	0.1% to 50%		7.2	G		
			3.5	E		
			1.4	D		
Oxygen	5 to 99 ppm	Nitrogen	8.3	G	AS 2473 TYPE 10	< 23% UN 1956 > 23% UN 3156
			4.1	E		
			1.7	D		
	100 to 999ppm		8.3	G		
			4.1	E		
			1.7	D		
	0.1% to 50%		8.3	G		
			4.1	E		
			1.7	D		
Oxygen	0.1% to 0.3%	EPA Protocol Mixtures : Nitrogen	3.02	30 AL	CGA 590 (O <sub>2</sub> < 23%) CGA 590 (O <sub>2</sub> > 23%)	< 23% UN 1956 > 23% UN 3156
			0.91	7 AL		
Propane or Propylene	5 to 99 ppm	Air	7.9	G	AS 2473 TYPE 20	UN 1956
			1.5	D		
	100 to 999ppm		7.9	G		
			1.5	D		
	0.1% to 0.3%		7.9	G		
1.5		D				
Propane or Propylene	5 to 99 ppm	Argon	8.5	G	AS 2473 TYPE 20	UN 1956
			1.7	D		
	100 to 999ppm		8.5	G		
			1.7	D		
	0.1% to 0.3%		8.5	G		
1.7		D				
Propane or Propylene	5 to 99 ppm	Helium	7.3	G	AS 2473 TYPE 20	UN 1956
			1.4	D		
	100 to 999ppm		7.3	G		
			1.4	D		
	0.1% to 0.3%		7.3	G		
1.4		D				
Propane or Propylene	5 to 99 ppm	Hydrogen	5.9	G	AS 2473 TYPE 20	UN 1956
			1.1	D		
	100 to 999ppm		5.9	G		
			1.1	D		
	0.1% to 0.3%		5.9	G		
1.1		D				

# GAS MIXTURES



Minor Component	Component Concentration	Balance Gas	Contents (m <sup>3</sup> )	Cylinder Size	Valve Outlet	UN Number
Toluene	5 to 49 ppm	Helium	3.82	30 AL	CGA 590	UN 1956
			0.88	7 AL		
	50 to 99 ppm		3.82	30 AL		
			0.88	7 AL		
	100 to 1000		3.82	30 AL		
			0.88	7 AL		
Toluene	5 to 49 ppm	Nitrogen	4.02	30 AL	CGA 590	UN 1956
			0.91	7 AL		
	50 to 99 ppm		4.02	30 AL		
			0.91	7 AL		
	100 to 1000		4.02	30 AL		
			0.91	7 AL		
Trichloro-ethylene	5 to 49 ppm	Air	3.65	44	CGA 590	UN 1956
			0.85	16		
	50 to 99 ppm		3.65	44		
			0.85	16		
	100 to 1000		3.65	44		
			0.85	16		
Trichloro-ethylene	5 to 49 ppm	Helium	3.91	44	CGA 350	UN 1956
			0.91	16		
	50 to 99 ppm		3.91	44		
			0.91	16		
	100 to 1000		3.91	44		
			0.91	16		
Trichloro-ethylene	5 to 49 ppm	Nitrogen	3.46	44	CGA 350	UN 1956
			0.79	16		
	50 to 99 ppm		3.46	44		
			0.79	16		
	100 to 1000		3.46	44		
			0.79	16		
Water	2 to 99 ppm	Air	4.08 0.99	30 AL 7 AL	CGA 590	UN 1956
Water	2 to 99 ppm	Argon	4.39 1.02	30 AL 7 AL	CGA 580	UN 1956
Water	2 to 99 ppm	Helium	3.82 0.91	30 AL 7 AL	CGA 580	UN 1956
Water	2 to 99 ppm	Hydrogen	3.77 0.88	30 AL 7 AL	CGA 350	UN 1954
Water	2 to 99 ppm	Nitrogen	4.02 0.93	30 AL 7 AL	CGA 580	UN 1956