



AIR QUALITY DESIGN BASIS

PREPURIFIED GAS PLANTS

	Maximum Concentration ppmv	Note
		1
Hydrogen	10	2
Carbon Monoxide	5	2
Carbon Dioxide	400	
Methane	5	3
Ethylene	0,1	3
Ethane	0,1	3
Propane	0,05	3
Acetylenes, Propylene and All C ₄ + Hydrocarbons	1,0	
Nitrous Oxide	0,5	3
All other Oxides of Nitrogen (NO, NO ₂)	0,05	
Ammonia	1,0	
Sulphur Compounds (SO ₂ , H ₂ S, Mercaptans)	0,1	
Halogens and Halogen Compounds	ND	4
All other Gas Phase Contaminants	ND	4
Particulate, mg/m ³	3	

Notes:

1. Indicated concentrations are maximums which can be tolerated on a continuous basis. Very short peaks of up to 10 times these levels can be tolerated if they do not cause any 8-hour average to exceed the indicated concentration. Higher concentrations, or presence of contaminants not identified herein, requires specific evaluation with respect to safety, mechanical integrity of equipment and/or potential design changes.
2. Lower levels may be required to satisfy nitrogen product purity specifications.
3. Lower levels may be required to satisfy oxygen product purity specifications.
4. Non-Detectable at sensitivity of 1 ppbv.