

Biogas Quality Specifications

Maximum Constituent Concentrations for Dairies or Landfills

Biomethane Injection Constituents

Traditional Gas Quality Requirements ¹

Health Protective Constituents – Carcinogenic	Maximum Level
Arsenic	0.19 mg/m ³
	0.06 ppmv
P-Dischlorobenzenes	57 mg/m ³
	9.5 ppmv
Ethylbenzene	260 mg/m ³
	60 ppmv
n-Nitroso-di-n-propylamine	0.33 mg/m ³
	0.06 ppmv
Vinyl Chloride	8.4 mg/m ³
	3.3 ppmv
Hydrogen Sulfide	300 mg/m ³
	4.125 ppmv
Mercaptans (Alkyl Thiols)	120 ppmv
Antimony	6.0 mg/m ³
	1.2 ppmv
Copper	0.6 mg/m ³
	0.23 ppmv
Lead	0.75 mg/m ³
	0.09 ppmv
Methacrolin	11 mg/m ⁴
	3.7 ppmv
Toluene	9000 mg/m ³
	2400 ppmv
Alkyl Thiols	9000 mg/m ³
	2400 ppmv
Pipeline Integrity Protective Constituents	Maximum Level
Ammonia	0.001% by Volume
Biologicals	4x10 ⁴ / scf (qPCR per APB, SRB, IOB ² group) and commercially free
Hydrogen	0.1% by Volume
Mercury	0.08 mg/m ³
	.010 ppmv
Siloxanes	0.01 mg/m ³
	0.009 ppmv

Notes:

1. Additional gas quality requirements are found in the Standard Off System Transportation Contract (Form 34).
2. Acid-producing Bacteria (APB), Sulfate-reducing Bacteria (SRB), and Iron-oxidizing Bacteria (IOB).