



FlexMixer™ Preloaded Gas Configurations

The KIN-TEK FlexMixer™ utilizes dedicated input channels to blend a balance gas source with up to 3 input component gas sources such as direct feeds or dedicated cylinders.

- Create custom gas blends.
- 100+ preloaded gas configurations available.
- 20 user defined gas blends.

CHROMATOGRAPHY GASES		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
P-5	5% CH ₄ / 95% Ar	207.988	1.7307	0.9990036
P-10	10% CH ₄ 90% Ar	205.657	1.6774	0.99895

PURE NON-CORROSIVE GASES*		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
C ₂ H ₂	Acetylene	97.374	1.1728	0.9905
Air	Air	172.574	1.2930	0.9994
Ar	Argon	210.167	1.7840	0.9991
i-C ₄ H ₁₀	i-Butane	68.759	2.6887	0.9645
n-C ₄ H ₁₀	n-Butane	67.690	2.7037	0.9591
CO ₂	Carbon Dioxide	137.107	1.9768	0.9933
CO	Carbon Monoxide	165.151	1.2505	0.9993
D ₂	Deuterium	119.196	0.1796	1.0006
C ₂ H ₆	Ethane	86.129	1.3550	0.9901
C ₂ H ₄	Ethylene (Ethene)	94.697	1.2611	0.9925
He	Helium	186.945	0.1785	1.0005
H ₂	Hydrogen	83.969	0.0899	1.0006
Kr	Krypton	232.193	3.7490	0.9972
CH ₄	Methane	102.550	0.7175	0.9976
Ne	Neon	293.822	0.8999	1.0005
N ₂	Nitrogen	166.287	1.2504	0.9995
N ₂ O	Nitrous Oxide	136.310	1.9779	0.9928
O ₂	Oxygen	191.433	1.4290	0.9990
C ₃ H ₈	Propane	74.692	2.0105	0.9785
SF ₆	Sulfur Hexafluoride	140.890	6.6162	0.9849
Xe	Xenon	212.157	5.8980	0.9932

* Special configuration required – specify gases needed

BREATHING GASES		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
EAN-32	32% O ₂ / 68% N ₂	174.925	1.3075	0.9993715
EAN	36% O ₂ / 64% N ₂	175.963	1.3147	0.9993508
EAN-40	40% O ₂ / 60% N ₂	176.993	1.3218	0.9993302
HeOx-20	20% O ₂ / 80% He	204.175	0.4281	1.000593
HeOx-21	21% O ₂ / 79% He	204.395	0.4406	1.000591
HeOx-30	30% O ₂ / 70% He	205.140	0.5530	1.000565
HeOx-40	40% O ₂ / 60% He	204.307	0.6779	1.000502
HeOx-50	50% O ₂ / 50% He	202.592	0.8028	1.000401
HeOx-60	60% O ₂ / 40% He	200.467	0.9278	1.000257
HeOx-80	80% O ₂ / 20% He	195.872	1.1781	0.9998019
HeOx-99	99% O ₂ / 1% He	191.646	1.4165	0.9990796
EA-40	Enriched Air-40% O ₂	177.396	1.3258	0.9993261
EA-60	Enriched Air-60% O ₂	182.261	1.3602	0.9992266
EA-80	Enriched Air-80% O ₂	186.937	1.3946	0.9991288
Metabol	"Metabolic Exhalant (16% O ₂ / 78.04% N ₂ / 5% CO ₂ / 0.96% Ar)"	170.051	1.3200	0.9992587

FUEL GASES		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
Syn Gas-1	40% H ₂ + 29% CO + 20% CO ₂ + 11% CH ₄	144.565	0.8704	0.9992763
Syn Gas-2	64% H ₂ + 28% CO + 1% CO ₂ + 7% CH ₄	142.249	0.4771	1.000263
Syn Gas-3	70% H ₂ + 4% CO + 25% CO ₂ + 1% CH ₄	136.493	0.6111	0.9997559
Syn Gas-4	83% H ₂ + 14% CO + 3% CH ₄	125.388	0.2709	1.000509
Nat Gas-1	93% CH ₄ / 3% C ₂ H ₆ / 1% C ₃ H ₈ / 2% N ₂ / 1% CO ₂	103.189	0.7722	0.9973965
Nat Gas-2	95% CH ₄ / 3% C ₂ H ₆ / 1% N ₂ / 1% CO ₂	103.027	0.7543	0.9974642
Nat Gas-3	"95.2% CH ₄ / 2.5% C ₂ H ₆ / 0.2% C ₃ H ₈ / 0.1% C ₄ H ₁₀ / 1.3% N ₂ / 0.7% CO ₂ "	102.980	0.7534	0.9974725
Coal Gas	50% H ₂ / 35% CH ₄ / 10% CO / 5% C ₂ H ₄	115.045	0.6589	0.996387
Endo	75% H ₂ + 25% N ₂	133.088	0.3797	1.000511
HHO	66.67% H ₂ / 33.33% O ₂	168.664	0.5356	1.000396
HD-5	"LPG 96.1% C ₃ H ₈ / 1.5% C ₂ H ₆ / 0.4% C ₃ H ₆ / 1.9% n-C ₄ H ₁₀ "	74.933	2.0128	0.9784565
HD-10	LPG 85% C ₃ H ₈ / 10% C ₃ H ₆ / 5% n-C ₄ H ₁₀	74.934	2.0343	0.9780499

LASER GASES		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
LG-4.5	4.5% CO ₂ / 13.5% N ₂ / 82% He	187.438	0.4033	1.000551
LG-6	6% CO ₂ / 14% N ₂ / 80% He	186.670	0.4354	1.00053
LG-7	7% CO ₂ / 14% N ₂ / 79% He	186.204	0.4533	1.000514
LG-9	9% CO ₂ / 15% N ₂ / 76% He	184.835	0.4997	1.000478
HeNe-9	9% Ne / 91% He	211.756	0.2276	1.000516
LG-9.4	9.4% CO ₂ / 19.25% N ₂ / 71.35% He	183.261	0.5523	1.000458

O ₂ CONCENTRATOR GASES		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
OCG-89	89% O ₂ / 7% N ₂ / 4% Ar	190.897	1.4307	0.9990695
OCG-93	93% O ₂ / 3% N ₂ / 4% Ar	191.795	1.4379	0.9990499
OCG-95	95% O ₂ / 1% N ₂ / 4% Ar	192.241	1.4414	0.99904

REFRIGERANT GASES*		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
R-11	Trichlorofluoromethane	Liquid	Liquid	Liquid
R-115	Chloropentafluoroethane	114.891	7.0666	0.9752287
R-116	Hexafluoroethane	126.635	6.2458	0.9858448
R-124	Chlorotetrafluoroethane	105.808	6.3175	0.963807
R-125	Pentafluoroethane	118.793	5.4689	0.979137
R-134A	Tetrafluoroethane	108.311	4.6863	0.9713825
R-14	Tetrafluoromethane	159.688	3.9467	0.9948964
R-142b	Chlorodifluoroethane	95.092	4.6509	0.9640371
R-143a	Trifluoroethane	101.344	3.8394	0.9765755
R-152a	Difluoroethane	91.952	3.0377	0.9701025
R-22	Difluoromono-chloromethane	115.325	3.9360	0.9801128
R-23	Trifluoromethane	136.997	3.1568	0.9895204
R-32	Difluoromethane	115.303	2.3619	0.9827161
RC-318	Octafluorocyclobutane	104.785	9.3017	0.9594738
R-404A	44% R-125 / 4% R-134A / 52% R-143A	111.584	4.5932	0.9770889
R-407C	23% R-32 / 25% R-125 / 52% R-134A	112.698	4.3427	0.9762849
R-410A	50% R-32 / 50% R-125	122.417	3.9118	0.9811061
R-507A	50% R-125 / 50% R-143A	112.445	4.6573	0.9774207

*Special configuration required – specify gases needed

STACK GASES		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
FG-1	2.5% O ₂ / 10.8% CO ₂ / 85.7% N ₂ / 1% Ar	165.222	1.3379	0.9990842
FG-2	2.9% O ₂ / 14% CO ₂ / 82.1% N ₂ / 1% Ar	164.501	1.3617	0.9989417
FG-3	3.7% O ₂ / 15% CO ₂ / 80.3% N ₂ / 1% Ar	164.426	1.3703	0.9988933
FG-4	7% O ₂ / 12% CO ₂ / 80% N ₂ / 1% Ar	166.012	1.3546	0.9990116
FG-5	10% O ₂ / 9.5% CO ₂ / 79.5% N ₂ / 1% Ar	167.401	1.3419	0.9991044
FG-6	13% O ₂ / 7% CO ₂ / 79% N ₂ / 1% Ar	168.799	1.3293	0.9991932

BIOREACTOR GASES		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
Bio-5M	5% CH ₄ / 95% CO ₂	136.268	1.9134	0.9935816
Bio-10M	10% CH ₄ / 90% CO ₂	135.383	1.8500	0.993893
Bio-15M	15% CH ₄ / 85% CO ₂	134.447	1.7867	0.9941932
Bio-20M	20% CH ₄ / 80% CO ₂	133.457	1.7235	0.994482
Bio-25M	25% CH ₄ / 75% CO ₂	132.407	1.6603	0.9947594
Bio-30M	30% CH ₄ / 70% CO ₂	131.290	1.5971	0.9950255
Bio-35M	35% CH ₄ / 65% CO ₂	130.102	1.5340	0.9952803
Bio-40M	40% CH ₄ / 60% CO ₂	128.834	1.4710	0.9955239
Bio-45M	45% CH ₄ / 55% CO ₂	127.478	1.4080	0.9957564
Bio-50M	50% CH ₄ / 50% CO ₂	126.025	1.3450	0.9959779
Bio-55M	55% CH ₄ / 45% CO ₂	124.462	1.2821	0.9961886
Bio-60M	60% CH ₄ / 40% CO ₂	122.779	1.2193	0.9963885
Bio-65M	65% CH ₄ / 35% CO ₂	120.959	1.1564	0.9965779
Bio-70M	70% CH ₄ / 30% CO ₂	118.987	1.0936	0.9967567
Bio-75M	75% CH ₄ / 25% CO ₂	116.842	1.0309	0.9969251
Bio-80M	80% CH ₄ / 20% CO ₂	114.501	0.9681	0.9970832
Bio-85M	85% CH ₄ / 15% CO ₂	111.938	0.9054	0.9972309
Bio-90M	90% CH ₄ / 10% CO ₂	109.119	0.8427	0.9973684
Bio-95M	95% CH ₄ / 5% CO ₂	106.005	0.7801	0.9974957

WELDING GASES		0°C		
Short Name	Long Name	Absolute Viscosity	Density 14.696 PSIA	Compressibility 14.696 PSIA
C-2	2% CO ₂ / 98% Ar	208.673	1.7877	0.998993
C-8	8% CO ₂ / 92% Ar	204.199	1.7989	0.9987964
C-10	10% CO ₂ / 90% Ar	202.706	1.8027	0.9987278
C-15	15% CO ₂ / 85% Ar	198.960	1.8121	0.9985493
C-20	20% CO ₂ / 80% Ar	195.198	1.8215	0.9983605
C-25	25% CO ₂ / 75% Ar	191.436	1.8309	0.9981609
C-50	50% CO ₂ / 50% Ar	172.843	1.8786	0.9969777
C-75	75% CO ₂ / 25% Ar	154.670	1.9271	0.995401
He-25	25% He / 75% Ar	216.008	1.3814	0.9999341
He-50	50% He / 50% Ar	220.464	0.9800	1.00039
He-75	75% He / 25% Ar	216.937	0.5792	1.000571
He-90	90% He / 10% Ar	205.813	0.3388	1.00057
A1025	90% He / 7.5% Ar / 2.5% CO ₂	201.175	0.3433	1.000556
Star29	"Stargon CS 90% Ar / 8% CO ₂ / 2% O ₂ "	203.890	1.7918	0.998798

The FlexMixer™ may require option configurations for use with corrosive or reactive gases.

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