

## FlexMixer™ Preloaded Gas Configurations

| Short Name                       | Long Name                                                  | 0°C                |                        |                                |
|----------------------------------|------------------------------------------------------------|--------------------|------------------------|--------------------------------|
|                                  |                                                            | Absolute Viscosity | Density<br>14.696 PSIA | Compressibility<br>14.696 PSIA |
| Air                              | Air                                                        | 172.574            | 1.2930                 | 0.9994                         |
| Ar                               | Argon                                                      | 210.167            | 1.7840                 | 0.9991                         |
| CH <sub>4</sub>                  | Methane                                                    | 102.550            | 0.7175                 | 0.9976                         |
| CO                               | Carbon Monoxide                                            | 165.151            | 1.2505                 | 0.9993                         |
| CO <sub>2</sub>                  | Carbon Dioxide                                             | 137.107            | 1.9768                 | 0.9933                         |
| C <sub>2</sub> H <sub>6</sub>    | Ethane                                                     | 86.129             | 1.3550                 | 0.9901                         |
| H <sub>2</sub>                   | Hydrogen                                                   | 83.969             | 0.0899                 | 1.0006                         |
| He                               | Helium                                                     | 186.945            | 0.1785                 | 1.0005                         |
| N <sub>2</sub>                   | Nitrogen                                                   | 166.287            | 1.2504                 | 0.9995                         |
| N <sub>2</sub> O                 | Nitrous Oxide                                              | 136.310            | 1.9779                 | 0.9928                         |
| Ne                               | Neon                                                       | 293.822            | 0.8999                 | 1.0005                         |
| O <sub>2</sub>                   | Oxygen                                                     | 191.433            | 1.4290                 | 0.9990                         |
| C <sub>3</sub> H <sub>8</sub>    | Propane                                                    | 74.692             | 2.0105                 | 0.9785                         |
| n-C <sub>4</sub> H <sub>10</sub> | n-Butane                                                   | 67.690             | 2.7037                 | 0.9591                         |
| C <sub>2</sub> H <sub>2</sub>    | Acetylene                                                  | 97.374             | 1.1728                 | 0.9905                         |
| C <sub>2</sub> H <sub>4</sub>    | Ethylene (Ethene)                                          | 94.697             | 1.2611                 | 0.9925                         |
| i-C <sub>4</sub> H <sub>10</sub> | i-Butane                                                   | 68.759             | 2.6887                 | 0.9645                         |
| Kr                               | Krypton                                                    | 232.193            | 3.7490                 | 0.9972                         |
| Xe                               | Xenon                                                      | 212.157            | 5.8980                 | 0.993                          |
| SF <sub>6</sub>                  | Sulfur Hexafluoride                                        | 140.890            | 6.6162                 | 0.9849                         |
| C-25                             | 25% CO <sub>2</sub> / 75% Ar                               | 191.436            | 1.8309                 | 0.9981609                      |
| C-10                             | 10% CO <sub>2</sub> / 90% Ar                               | 202.706            | 1.8027                 | 0.9987278                      |
| C-8                              | 8% CO <sub>2</sub> / 92% Ar                                | 204.199            | 1.7989                 | 0.9987964                      |
| C-2                              | 2% CO <sub>2</sub> / 98% Ar                                | 208.673            | 1.7877                 | 0.998993                       |
| C-75                             | 75% CO <sub>2</sub> / 25% Ar                               | 154.670            | 1.9271                 | 0.995401                       |
| He-25                            | 25% He / 75% Ar                                            | 216.008            | 1.3814                 | 0.9999341                      |
| He-75                            | 75% He / 25% Ar                                            | 216.937            | 0.5792                 | 1.000571                       |
| A1025                            | 90% He / 7.5% Ar / 2.5% CO <sub>2</sub>                    | 201.175            | 0.3433                 | 1.000556                       |
| Star29                           | Stargon CS 90% Ar / 8% CO <sub>2</sub> / 2% O <sub>2</sub> | 203.890            | 1.7918                 | 0.998798                       |
| P-5                              | 5% CH <sub>4</sub> / 95% Ar                                | 207.988            | 1.7307                 | 0.9990036                      |
| NO                               | NO (Nitric Oxide)                                          | 176.754            | 1.3394                 | 0.9995317                      |
| NF <sub>3</sub>                  | NF <sub>3</sub> (Nitrogen Trifluoride)                     | 162.426            | 3.1840                 | 0.9951506                      |
| NH <sub>3</sub>                  | Ammonia                                                    | 91.930             | 0.7715                 | 0.9848612                      |
| Cl <sub>2</sub>                  | Chlorine                                                   | 125.464            | 3.1635                 | 0.98407                        |

|                                  |                                           |         |        |           |
|----------------------------------|-------------------------------------------|---------|--------|-----------|
| H <sub>2</sub> S                 | Hydrogen Sulfide (H <sub>2</sub> S)       | 112.982 | 1.5361 | 0.9898858 |
| SO <sub>2</sub>                  | Sulfur Dioxide                            | 116.717 | 2.9312 | 0.9750866 |
| C <sub>3</sub> H <sub>6</sub>    | Propylene (Propylene)                     | 78.129  | 1.9139 | 0.9809373 |
| D <sub>2</sub>                   | Deuterium                                 | 119.196 | 0.1796 | 1.0006    |
| 1Butene                          | Butylene (1-Butene)                       | 74.354  | 2.6036 | 0.9614456 |
| cButene                          | Cis-Butene (cis-2-butene)                 | Liquid  | Liquid | Liquid    |
| iButene                          | Iso-Butene                                | 73.640  | 2.6038 | 0.9613501 |
| tButene                          | Trans-Butene                              | Liquid  | Liquid | Liquid    |
| COS                              | Carbonyl Sulfide                          | 113.127 | 2.7202 | 0.985328  |
| CH <sub>3</sub> OCH <sub>3</sub> | Dimethylether                             | 82.865  | 2.1090 | 0.9745473 |
| SiH <sub>4</sub>                 | Silane (SiH <sub>4</sub> )                | 107.053 | 1.4433 | 0.99282   |
| 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 |
| C-15                             | 15% CO <sub>2</sub> / 85% Ar              | 198.960 | 1.8121 | 0.9985493 |
| C-20                             | 20% CO <sub>2</sub> / 80% Ar              | 195.198 | 1.8215 | 0.9983605 |
| C-50                             | 50% CO <sub>2</sub> / 50% Ar              | 172.843 | 1.8786 | 0.9969777 |
| He-50                            | 50% He / 50% Ar                           | 220.464 | 0.9800 | 1.00039   |
| He-90                            | 90% He / 10% Ar                           | 205.813 | 0.3388 | 1.00057   |
| Bio-5M                           | 5% CH <sub>4</sub> / 95% CO <sub>2</sub>  | 136.268 | 1.9134 | 0.9935816 |
| Bio-10M                          | 10% CH <sub>4</sub> / 90% CO <sub>2</sub> | 135.383 | 1.8500 | 0.993893  |
| Bio-15M                          | 15% CH <sub>4</sub> / 85% CO <sub>2</sub> | 134.447 | 1.7867 | 0.9941932 |
| Bio-20M                          | 20% CH <sub>4</sub> / 80% CO <sub>2</sub> | 133.457 | 1.7235 | 0.994482  |
| Bio-25M                          | 25% CH <sub>4</sub> / 75% CO <sub>2</sub> | 132.407 | 1.6603 | 0.9947594 |
| Bio-30M                          | 30% CH <sub>4</sub> / 70% CO <sub>2</sub> | 131.290 | 1.5971 | 0.9950255 |
| Bio-35M                          | 35% CH <sub>4</sub> / 65% CO <sub>2</sub> | 130.102 | 1.5340 | 0.9952803 |
| Bio-40M                          | 40% CH <sub>4</sub> / 60% CO <sub>2</sub> | 128.834 | 1.4710 | 0.9955239 |
| Bio-45M                          | 45% CH <sub>4</sub> / 55% CO <sub>2</sub> | 127.478 | 1.4080 | 0.9957564 |
| Bio-50M                          | 50% CH <sub>4</sub> / 50% CO <sub>2</sub> | 126.025 | 1.3450 | 0.9959779 |

|           |                                                                                                                                                                                    |         |        |           |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|-----------|
| Bio-55M   | 55% CH <sub>4</sub> / 45% CO <sub>2</sub>                                                                                                                                          | 124.462 | 1.2821 | 0.9961886 |
| Bio-60M   | 60% CH <sub>4</sub> / 40% CO <sub>2</sub>                                                                                                                                          | 122.779 | 1.2193 | 0.9963885 |
| Bio-65M   | 65% CH <sub>4</sub> / 35% CO <sub>2</sub>                                                                                                                                          | 120.959 | 1.1564 | 0.9965779 |
| Bio-70M   | 70% CH <sub>4</sub> / 30% CO <sub>2</sub>                                                                                                                                          | 118.987 | 1.0936 | 0.9967567 |
| Bio-75M   | 75% CH <sub>4</sub> / 25% CO <sub>2</sub>                                                                                                                                          | 116.842 | 1.0309 | 0.9969251 |
| Bio-80M   | 80% CH <sub>4</sub> / 20% CO <sub>2</sub>                                                                                                                                          | 114.501 | 0.9681 | 0.9970832 |
| Bio-85M   | 85% CH <sub>4</sub> / 15% CO <sub>2</sub>                                                                                                                                          | 111.938 | 0.9054 | 0.9972309 |
| Bio-90M   | 90% CH <sub>4</sub> / 10% CO <sub>2</sub>                                                                                                                                          | 109.119 | 0.8427 | 0.9973684 |
| Bio-95M   | 95% CH <sub>4</sub> / 5% CO <sub>2</sub>                                                                                                                                           | 106.005 | 0.7801 | 0.9974957 |
| EAN-32    | 32% O <sub>2</sub> / 68% N <sub>2</sub>                                                                                                                                            | 174.925 | 1.3075 | 0.9993715 |
| EAN       | 36% O <sub>2</sub> / 64% N <sub>2</sub>                                                                                                                                            | 175.963 | 1.3147 | 0.9993508 |
| EAN-40    | 40% O <sub>2</sub> / 60% N <sub>2</sub>                                                                                                                                            | 176.993 | 1.3218 | 0.9993302 |
| HeOx-20   | 20% O <sub>2</sub> / 80% He                                                                                                                                                        | 204.175 | 0.4281 | 1.000593  |
| HeOx-21   | 21% O <sub>2</sub> / 79% He                                                                                                                                                        | 204.395 | 0.4406 | 1.000591  |
| HeOx-30   | 30% O <sub>2</sub> / 70% He                                                                                                                                                        | 205.140 | 0.5530 | 1.000565  |
| HeOx-40   | 40% O <sub>2</sub> / 60% He                                                                                                                                                        | 204.307 | 0.6779 | 1.000502  |
| HeOx-50   | 50% O <sub>2</sub> / 50% He                                                                                                                                                        | 202.592 | 0.8028 | 1.000401  |
| HeOx-60   | 60% O <sub>2</sub> / 40% He                                                                                                                                                        | 200.467 | 0.9278 | 1.000257  |
| HeOx-80   | 80% O <sub>2</sub> / 20% He                                                                                                                                                        | 195.872 | 1.1781 | 0.9998019 |
| HeOx-99   | 99% O <sub>2</sub> / 1% He                                                                                                                                                         | 191.646 | 1.4165 | 0.9990796 |
| EA-40     | Enriched Air-40% O <sub>2</sub>                                                                                                                                                    | 177.396 | 1.3258 | 0.9993261 |
| EA-60     | Enriched Air-60% O <sub>2</sub>                                                                                                                                                    | 182.261 | 1.3602 | 0.9992266 |
| EA-80     | Enriched Air-80% O <sub>2</sub>                                                                                                                                                    | 186.937 | 1.3946 | 0.9991288 |
| Metabol   | Metabolic Exhalant (16% O <sub>2</sub> / 78.04% N <sub>2</sub> / 5% CO <sub>2</sub> / 0.96% Ar)                                                                                    | 170.051 | 1.3200 | 0.9992587 |
| LG-4.5    | 4.5% CO <sub>2</sub> / 13.5% N <sub>2</sub> / 82% He                                                                                                                               | 187.438 | 0.4033 | 1.000551  |
| LG-6      | 6% CO <sub>2</sub> / 14% N <sub>2</sub> / 80% He                                                                                                                                   | 186.670 | 0.4354 | 1.00053   |
| LG-7      | 7% CO <sub>2</sub> / 14% N <sub>2</sub> / 79% He                                                                                                                                   | 186.204 | 0.4533 | 1.000514  |
| LG-9      | 9% CO <sub>2</sub> / 15% N <sub>2</sub> / 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 <sub>2</sub> / 19.25% N <sub>2</sub> / 71.35% He                                                                                                                           | 183.261 | 0.5523 | 1.000458  |
| Syn Gas-1 | 40% H <sub>2</sub> + 29% CO + 20% CO <sub>2</sub> + 11% CH <sub>4</sub>                                                                                                            | 144.565 | 0.8704 | 0.9992763 |
| Syn Gas-2 | 64% H <sub>2</sub> + 28% CO + 1% CO <sub>2</sub> + 7% CH <sub>4</sub>                                                                                                              | 142.249 | 0.4771 | 1.000263  |
| Syn Gas-3 | 70% H <sub>2</sub> + 4% CO + 25% CO <sub>2</sub> + 1% CH <sub>4</sub>                                                                                                              | 136.493 | 0.6111 | 0.9997559 |
| Syn Gas-4 | 83% H <sub>2</sub> + 14% CO + 3% CH <sub>4</sub>                                                                                                                                   | 125.388 | 0.2709 | 1.000509  |
| Nat Gas-1 | 93% CH <sub>4</sub> / 3% C <sub>2</sub> H <sub>6</sub> / 1% C <sub>3</sub> H <sub>8</sub> / 2% N <sub>2</sub> / 1% CO <sub>2</sub>                                                 | 103.189 | 0.7722 | 0.9973965 |
| Nat Gas-2 | 95% CH <sub>4</sub> / 3% C <sub>2</sub> H <sub>6</sub> / 1% N <sub>2</sub> / 1% CO <sub>2</sub>                                                                                    | 103.027 | 0.7543 | 0.9974642 |
| Nat Gas-3 | 95.2% CH <sub>4</sub> / 2.5% C <sub>2</sub> H <sub>6</sub> / 0.2% C <sub>3</sub> H <sub>8</sub> / 0.1% C <sub>4</sub> H <sub>10</sub> / 1.3% N <sub>2</sub> / 0.7% CO <sub>2</sub> | 102.980 | 0.7534 | 0.9974725 |
| Coal Gas  | 50% H <sub>2</sub> / 35% CH <sub>4</sub> / 10% CO / 5% C <sub>2</sub> H <sub>4</sub>                                                                                               | 115.045 | 0.6589 | 0.996387  |
| Endo      | 75% H <sub>2</sub> + 25% N <sub>2</sub>                                                                                                                                            | 133.088 | 0.3797 | 1.000511  |
| HHO       | 66.67% H <sub>2</sub> / 33.33% O <sub>2</sub>                                                                                                                                      | 168.664 | 0.5356 | 1.000396  |
| HD-5      | LPG 96.1% C <sub>3</sub> H <sub>8</sub> / 1.5% C <sub>2</sub> H <sub>6</sub> / 0.4% C <sub>3</sub> H <sub>6</sub> / 1.9% n-C <sub>4</sub> H <sub>10</sub>                          | 74.933  | 2.0128 | 0.9784565 |

|        |                                                                                                                 |         |        |           |
|--------|-----------------------------------------------------------------------------------------------------------------|---------|--------|-----------|
| HD-10  | LPG 85% C <sub>3</sub> H <sub>8</sub> / 10% C <sub>3</sub> H <sub>6</sub> / 5% n-C <sub>4</sub> H <sub>10</sub> | 74.934  | 2.0343 | 0.9780499 |
| OCG-89 | 89% O <sub>2</sub> / 7% N <sub>2</sub> / 4% Ar                                                                  | 190.897 | 1.4307 | 0.9990695 |
| OCG-93 | 93% O <sub>2</sub> / 3% N <sub>2</sub> / 4% Ar                                                                  | 191.795 | 1.4379 | 0.9990499 |
| OCG-95 | 95% O <sub>2</sub> / 1% N <sub>2</sub> / 4% Ar                                                                  | 192.241 | 1.4414 | 0.99904   |
| FG-1   | 2.5% O <sub>2</sub> / 10.8% CO <sub>2</sub> / 85.7% N <sub>2</sub> / 1% Ar                                      | 165.222 | 1.3379 | 0.9990842 |
| FG-2   | 2.9% O <sub>2</sub> / 14% CO <sub>2</sub> / 82.1% N <sub>2</sub> / 1% Ar                                        | 164.501 | 1.3617 | 0.9989417 |
| FG-3   | 3.7% O <sub>2</sub> / 15% CO <sub>2</sub> / 80.3% N <sub>2</sub> / 1% Ar                                        | 164.426 | 1.3703 | 0.9988933 |
| FG-4   | 7% O <sub>2</sub> / 12% CO <sub>2</sub> / 80% N <sub>2</sub> / 1% Ar                                            | 166.012 | 1.3546 | 0.9990116 |
| FG-5   | 10% O <sub>2</sub> / 9.5% CO <sub>2</sub> / 79.5% N <sub>2</sub> / 1% Ar                                        | 167.401 | 1.3419 | 0.9991044 |
| FG-6   | 13% O <sub>2</sub> / 7% CO <sub>2</sub> / 79% N <sub>2</sub> / 1% Ar                                            | 168.799 | 1.3293 | 0.9991932 |
| P-10   | 10% CH <sub>4</sub> 90% Ar                                                                                      | 205.657 | 1.6774 | 0.99895   |

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

KIN-TEK Analytical, Inc.  
 504 Laurel St., La Marque, Tx 77568 USA  
 Ph. 409-938-3627 • 1-800-326-3627  
 Fax: 409-938-3710  
[sales@kin-tek.com](mailto:sales@kin-tek.com)



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