

# Koehler Injection & Balancing



Drag Race Fuel Injection - Flow Testing  
 Racing Engine & Industrial Balancing  
 Cylinder Head Work \* Aluminum Welding

**Nitrous Master** Software & Products

*David Koehler*

www.koehlerinjection.com

217 531 1770

1888 CR 1600 N. Urbana, IL 61802

Methanol @ 60° = .796sg

Nitro @ 60° = 1.144sg

Hydrometers available here

<http://koehlerinjection.com/fuel-injection-tools.html>

## Nitro percentage vs Fuel temperature = Specific Gravity

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### Percentage

| Temp | 85    | 86    | 87    | 88    | 89    | 90    | 91    | 92    | 93    | 94    | 95    | 96    | 97    | 98    | 99    | 100   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 40   | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 | 1.124 | 1.128 | 1.131 | 1.135 | 1.138 | 1.142 | 1.145 | 1.149 | 1.153 | 1.156 | 1.160 |
| 41   | 1.106 | 1.109 | 1.113 | 1.116 | 1.120 | 1.124 | 1.127 | 1.131 | 1.134 | 1.138 | 1.141 | 1.145 | 1.148 | 1.152 | 1.155 | 1.159 |
| 42   | 1.105 | 1.109 | 1.112 | 1.116 | 1.119 | 1.123 | 1.126 | 1.130 | 1.133 | 1.137 | 1.140 | 1.144 | 1.147 | 1.151 | 1.155 | 1.158 |
| 43   | 1.104 | 1.108 | 1.111 | 1.115 | 1.118 | 1.122 | 1.126 | 1.129 | 1.133 | 1.136 | 1.140 | 1.143 | 1.147 | 1.150 | 1.154 | 1.157 |
| 44   | 1.104 | 1.107 | 1.111 | 1.114 | 1.118 | 1.121 | 1.125 | 1.128 | 1.132 | 1.135 | 1.139 | 1.142 | 1.146 | 1.149 | 1.153 | 1.156 |
| 45   | 1.103 | 1.106 | 1.110 | 1.113 | 1.117 | 1.121 | 1.124 | 1.128 | 1.131 | 1.135 | 1.138 | 1.142 | 1.145 | 1.149 | 1.152 | 1.156 |
| 46   | 1.102 | 1.106 | 1.109 | 1.113 | 1.116 | 1.120 | 1.123 | 1.127 | 1.130 | 1.134 | 1.137 | 1.141 | 1.144 | 1.148 | 1.151 | 1.155 |
| 47   | 1.101 | 1.105 | 1.109 | 1.112 | 1.116 | 1.119 | 1.123 | 1.126 | 1.130 | 1.133 | 1.137 | 1.140 | 1.144 | 1.147 | 1.151 | 1.154 |
| 48   | 1.101 | 1.104 | 1.108 | 1.111 | 1.115 | 1.118 | 1.122 | 1.125 | 1.129 | 1.132 | 1.136 | 1.139 | 1.143 | 1.146 | 1.150 | 1.153 |
| 49   | 1.100 | 1.104 | 1.107 | 1.111 | 1.114 | 1.118 | 1.121 | 1.125 | 1.128 | 1.132 | 1.135 | 1.139 | 1.142 | 1.146 | 1.149 | 1.153 |
| 50   | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.117 | 1.120 | 1.124 | 1.127 | 1.131 | 1.134 | 1.138 | 1.141 | 1.145 | 1.148 | 1.152 |
| 51   | 1.099 | 1.102 | 1.106 | 1.109 | 1.113 | 1.116 | 1.120 | 1.123 | 1.127 | 1.130 | 1.134 | 1.137 | 1.141 | 1.144 | 1.148 | 1.151 |
| 52   | 1.098 | 1.101 | 1.105 | 1.108 | 1.112 | 1.115 | 1.119 | 1.122 | 1.126 | 1.129 | 1.133 | 1.136 | 1.140 | 1.143 | 1.147 | 1.150 |
| 53   | 1.097 | 1.101 | 1.104 | 1.108 | 1.111 | 1.115 | 1.118 | 1.122 | 1.125 | 1.129 | 1.132 | 1.136 | 1.139 | 1.143 | 1.146 | 1.150 |
| 54   | 1.096 | 1.100 | 1.103 | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 | 1.124 | 1.128 | 1.131 | 1.135 | 1.138 | 1.142 | 1.145 | 1.149 |
| 55   | 1.096 | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.117 | 1.120 | 1.124 | 1.127 | 1.131 | 1.134 | 1.138 | 1.141 | 1.145 | 1.148 |
| 56   | 1.095 | 1.099 | 1.102 | 1.106 | 1.109 | 1.113 | 1.116 | 1.119 | 1.123 | 1.126 | 1.130 | 1.133 | 1.137 | 1.140 | 1.144 | 1.147 |
| 57   | 1.094 | 1.098 | 1.101 | 1.105 | 1.108 | 1.112 | 1.115 | 1.119 | 1.122 | 1.126 | 1.129 | 1.133 | 1.136 | 1.140 | 1.143 | 1.147 |
| 58   | 1.094 | 1.097 | 1.101 | 1.104 | 1.108 | 1.111 | 1.115 | 1.118 | 1.122 | 1.125 | 1.129 | 1.132 | 1.136 | 1.139 | 1.142 | 1.146 |
| 59   | 1.093 | 1.096 | 1.100 | 1.103 | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 | 1.124 | 1.128 | 1.131 | 1.135 | 1.138 | 1.142 | 1.145 |
| 60   | 1.092 | 1.096 | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.117 | 1.120 | 1.124 | 1.127 | 1.131 | 1.134 | 1.138 | 1.141 | 1.144 |

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## Percentage

| Temp | 85    | 86    | 87    | 88    | 89    | 90    | 91    | 92    | 93    | 94    | 95    | 96    | 97    | 98    | 99    | 100   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 61   | 1.092 | 1.095 | 1.098 | 1.102 | 1.105 | 1.109 | 1.112 | 1.116 | 1.119 | 1.123 | 1.126 | 1.130 | 1.133 | 1.137 | 1.140 | 1.144 |
| 62   | 1.091 | 1.094 | 1.098 | 1.101 | 1.105 | 1.108 | 1.112 | 1.115 | 1.119 | 1.122 | 1.126 | 1.129 | 1.133 | 1.136 | 1.140 | 1.143 |
| 63   | 1.090 | 1.094 | 1.097 | 1.101 | 1.104 | 1.108 | 1.111 | 1.114 | 1.118 | 1.121 | 1.125 | 1.128 | 1.132 | 1.135 | 1.139 | 1.142 |
| 64   | 1.089 | 1.093 | 1.096 | 1.100 | 1.103 | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 | 1.124 | 1.128 | 1.131 | 1.135 | 1.138 | 1.142 |
| 65   | 1.089 | 1.092 | 1.096 | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.117 | 1.120 | 1.123 | 1.127 | 1.130 | 1.134 | 1.137 | 1.141 |
| 66   | 1.088 | 1.092 | 1.095 | 1.098 | 1.102 | 1.105 | 1.109 | 1.112 | 1.116 | 1.119 | 1.123 | 1.126 | 1.130 | 1.133 | 1.137 | 1.140 |
| 67   | 1.087 | 1.091 | 1.094 | 1.098 | 1.101 | 1.105 | 1.108 | 1.112 | 1.115 | 1.119 | 1.122 | 1.126 | 1.129 | 1.132 | 1.136 | 1.139 |
| 68   | 1.087 | 1.090 | 1.094 | 1.097 | 1.101 | 1.104 | 1.107 | 1.111 | 1.114 | 1.118 | 1.121 | 1.125 | 1.128 | 1.132 | 1.135 | 1.139 |
| 69   | 1.086 | 1.089 | 1.093 | 1.096 | 1.100 | 1.103 | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 | 1.124 | 1.128 | 1.131 | 1.135 | 1.138 |
| 70   | 1.085 | 1.089 | 1.092 | 1.096 | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.116 | 1.120 | 1.123 | 1.127 | 1.130 | 1.134 | 1.137 |
| 71   | 1.085 | 1.088 | 1.092 | 1.095 | 1.098 | 1.102 | 1.105 | 1.109 | 1.112 | 1.116 | 1.119 | 1.123 | 1.126 | 1.130 | 1.133 | 1.137 |
| 72   | 1.084 | 1.087 | 1.091 | 1.094 | 1.098 | 1.101 | 1.105 | 1.108 | 1.112 | 1.115 | 1.119 | 1.122 | 1.125 | 1.129 | 1.132 | 1.136 |
| 73   | 1.083 | 1.087 | 1.090 | 1.094 | 1.097 | 1.101 | 1.104 | 1.107 | 1.111 | 1.114 | 1.118 | 1.121 | 1.125 | 1.128 | 1.132 | 1.135 |
| 74   | 1.083 | 1.086 | 1.089 | 1.093 | 1.096 | 1.100 | 1.103 | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 | 1.124 | 1.127 | 1.131 | 1.134 |
| 75   | 1.082 | 1.085 | 1.089 | 1.092 | 1.096 | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.116 | 1.120 | 1.123 | 1.127 | 1.130 | 1.134 |
| 76   | 1.081 | 1.085 | 1.088 | 1.092 | 1.095 | 1.098 | 1.102 | 1.105 | 1.109 | 1.112 | 1.116 | 1.119 | 1.123 | 1.126 | 1.130 | 1.133 |
| 77   | 1.081 | 1.084 | 1.087 | 1.091 | 1.094 | 1.098 | 1.101 | 1.105 | 1.108 | 1.112 | 1.115 | 1.118 | 1.122 | 1.125 | 1.129 | 1.132 |
| 78   | 1.080 | 1.083 | 1.087 | 1.090 | 1.094 | 1.097 | 1.101 | 1.104 | 1.107 | 1.111 | 1.114 | 1.118 | 1.121 | 1.125 | 1.128 | 1.132 |
| 79   | 1.079 | 1.083 | 1.086 | 1.090 | 1.093 | 1.096 | 1.100 | 1.103 | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 | 1.124 | 1.127 | 1.131 |
| 80   | 1.079 | 1.082 | 1.085 | 1.089 | 1.092 | 1.096 | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.116 | 1.120 | 1.123 | 1.127 | 1.130 |
| 81   | 1.078 | 1.081 | 1.085 | 1.088 | 1.092 | 1.095 | 1.099 | 1.102 | 1.105 | 1.109 | 1.112 | 1.116 | 1.119 | 1.123 | 1.126 | 1.129 |

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## Percentage

| Temp | 85    | 86    | 87    | 88    | 89    | 90    | 91    | 92    | 93    | 94    | 95    | 96    | 97    | 98    | 99    | 100   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 82   | 1.077 | 1.081 | 1.084 | 1.088 | 1.091 | 1.094 | 1.098 | 1.101 | 1.105 | 1.108 | 1.112 | 1.115 | 1.118 | 1.122 | 1.125 | 1.129 |
| 83   | 1.077 | 1.080 | 1.083 | 1.087 | 1.090 | 1.094 | 1.097 | 1.101 | 1.104 | 1.107 | 1.111 | 1.114 | 1.118 | 1.121 | 1.125 | 1.128 |
| 84   | 1.076 | 1.079 | 1.083 | 1.086 | 1.090 | 1.093 | 1.097 | 1.100 | 1.103 | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 | 1.124 | 1.127 |
| 85   | 1.075 | 1.079 | 1.082 | 1.086 | 1.089 | 1.092 | 1.096 | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.116 | 1.120 | 1.123 | 1.127 |
| 86   | 1.075 | 1.078 | 1.081 | 1.085 | 1.088 | 1.092 | 1.095 | 1.099 | 1.102 | 1.105 | 1.109 | 1.112 | 1.116 | 1.119 | 1.123 | 1.126 |
| 87   | 1.074 | 1.077 | 1.081 | 1.084 | 1.088 | 1.091 | 1.094 | 1.098 | 1.101 | 1.105 | 1.108 | 1.112 | 1.115 | 1.118 | 1.122 | 1.125 |
| 88   | 1.073 | 1.077 | 1.080 | 1.084 | 1.087 | 1.090 | 1.094 | 1.097 | 1.101 | 1.104 | 1.108 | 1.111 | 1.114 | 1.118 | 1.121 | 1.125 |
| 89   | 1.073 | 1.076 | 1.079 | 1.083 | 1.086 | 1.090 | 1.093 | 1.097 | 1.100 | 1.103 | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 | 1.124 |
| 90   | 1.072 | 1.075 | 1.079 | 1.082 | 1.086 | 1.089 | 1.093 | 1.096 | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.116 | 1.120 | 1.123 |
| 91   | 1.071 | 1.075 | 1.078 | 1.082 | 1.085 | 1.088 | 1.092 | 1.095 | 1.099 | 1.102 | 1.106 | 1.109 | 1.112 | 1.116 | 1.119 | 1.123 |
| 92   | 1.071 | 1.074 | 1.078 | 1.081 | 1.084 | 1.088 | 1.091 | 1.095 | 1.098 | 1.101 | 1.105 | 1.108 | 1.112 | 1.115 | 1.119 | 1.122 |
| 93   | 1.070 | 1.073 | 1.077 | 1.080 | 1.084 | 1.087 | 1.091 | 1.094 | 1.097 | 1.101 | 1.104 | 1.108 | 1.111 | 1.114 | 1.118 | 1.121 |
| 94   | 1.069 | 1.073 | 1.076 | 1.080 | 1.083 | 1.086 | 1.090 | 1.093 | 1.097 | 1.100 | 1.104 | 1.107 | 1.110 | 1.114 | 1.117 | 1.121 |
| 95   | 1.069 | 1.072 | 1.076 | 1.079 | 1.082 | 1.086 | 1.089 | 1.093 | 1.096 | 1.099 | 1.103 | 1.106 | 1.110 | 1.113 | 1.116 | 1.120 |
| 96   | 1.068 | 1.072 | 1.075 | 1.078 | 1.082 | 1.085 | 1.089 | 1.092 | 1.095 | 1.099 | 1.102 | 1.106 | 1.109 | 1.112 | 1.116 | 1.119 |
| 97   | 1.067 | 1.071 | 1.074 | 1.078 | 1.081 | 1.084 | 1.088 | 1.091 | 1.095 | 1.098 | 1.102 | 1.105 | 1.108 | 1.112 | 1.115 | 1.119 |
| 98   | 1.067 | 1.070 | 1.074 | 1.077 | 1.080 | 1.084 | 1.087 | 1.091 | 1.094 | 1.097 | 1.101 | 1.104 | 1.108 | 1.111 | 1.114 | 1.118 |
| 99   | 1.066 | 1.070 | 1.073 | 1.076 | 1.080 | 1.083 | 1.087 | 1.090 | 1.093 | 1.097 | 1.100 | 1.104 | 1.107 | 1.110 | 1.114 | 1.117 |
| 100  | 1.066 | 1.069 | 1.072 | 1.076 | 1.079 | 1.083 | 1.086 | 1.089 | 1.093 | 1.096 | 1.100 | 1.103 | 1.106 | 1.110 | 1.113 | 1.117 |