



Sodium Nitrite TECHNICAL DATA SHEET

Specific Gravities and Concentrations of Commercial Sodium Nitrite Solutions at 15.6°C (60°F)

| % NaNO ₂ | Specific Gravity 15.6°C / 60°F | Pounds of NaNO ₂ per US Gallon of | | Final Volume** |
|------------------------|--------------------------------------|---|---------|-------------------|
| | | Solution* | Water** | |
| 0.0 | 1.000 | 0.00 | 0.00 | 1.000 |
| 2.0 | 1.013 | 0.17 | 0.17 | 1.007 |
| 4.0 | 1.027 | 0.34 | 0.35 | 1.014 |
| 6.0 | 1.040 | 0.52 | 0.53 | 1.023 |
| 8.0 | 1.054 | 0.70 | 0.72 | 1.031 |
| 10.0 | 1.068 | 0.89 | 0.93 | 1.040 |
| 12.0 | 1.081 | 1.08 | 1.14 | 1.051 |
| 14.0 | 1.095 | 1.28 | 1.36 | 1.062 |
| 16.0 | 1.110 | 1.48 | 1.59 | 1.073 |
| 18.0 | 1.124 | 1.69 | 1.83 | 1.085 |
| 20.0 | 1.139 | 1.90 | 2.08 | 1.097 |
| 22.0 | 1.155 | 2.12 | 2.35 | 1.110 |
| 24.0 | 1.170 | 2.34 | 2.63 | 1.125 |
| 26.0 | 1.186 | 2.57 | 2.93 | 1.139 |
| 28.0 | 1.202 | 2.80 | 3.24 | 1.155 |
| 30.0 | 1.219 | 3.05 | 3.57 | 1.172 |
| 32.0 | 1.236 | 3.30 | 3.92 | 1.190 |
| 34.0 | 1.254 | 3.55 | 4.29 | 1.208 |
| 36.0 | 1.271 | 3.81 | 4.69 | 1.229 |
| 38.0 | 1.288 | 4.08 | 5.11 | 1.252 |
| 40.0 | 1.306 | 4.35 | 5.56 | 1.276 |
| 42.0 | 1.323 | 4.63 | 6.03 | 1.303 |
| 44.0 | 1.340 | 4.91 | 6.55 | 1.333 |
| 46.0 | 1.356 | 5.21 | 7.10 | 1.364 |
| 48.0 | 1.375 | 5.50 | 7.69 | 1.399 |
| 50.0 | 1.393 | 5.80 | 8.33 | 1.436 |

Solution* - Begin with a specific amount of NaNO₂ (e.g. 1.08 lbs.) and some water, then fill the container up with water to the one (1) gallon mark. The end volume of the solution must be one (1) US gallon to achieve the desired concentration (e.g. 12.0%).

Water** - Begin with exactly one (1) gallon of water, then add a specific amount of NaNO₂ (e.g. 1.14 lbs.) in order to achieve the desired concentration (e.g. 12.0%). The **Final Volume**** of this solution is listed in the adjacent column.