

# Nitric Oxide NO

Synonyms: Nitrogen Oxide, Nitrogen Monoxide

### Physical Constants of Gas

Molecular Weight ..... 30.006  
 Specific Volume ..... 13 CF/lb. (0.8 m<sup>3</sup>/kg)  
 Boiling Point ..... -241.2°F (-151.8°C) 1 atm  
 Gas Density 70°F 1 atm ..... 1.27 kg/m<sup>3</sup>

### Cylinder Data

CGA Valve Outlet ..... 660, 728

### Shipping Data

Shipping Class ..... 200  
 DOT/TC Name ..... Nitric Oxide, Compressed  
 DOT Class ... 2.3 (Poisonous Gas) Hazard Zone A  
 TC Class ..... 2.3 (5.1) (8) Toxic Gas (Oxidizer)  
 (Corrosive)  
 WHMIS Class ..... ACD1AE  
 DOT Label ..... Poison Gas, Oxidizer, Corrosive  
 CAS Registry No. .... 10102-43-9  
 UN No./ATA No. .... UN1660

### Safety Information

Poisonous gas.  
 Can cause severe lung damage.  
 May cause eye and skin burns.  
 Symptoms may be delayed.  
 Vigorously accelerates combustion.  
 May be fatal if inhaled.

| Specifications  |                  |      |          |                |          |     |        |    | Recommended Equipment                                   |      |
|---|------------------|------|----------|----------------|----------|-----|--------|----|---|------|
| Grade   | Purity (Minimum) | Size | Contents |                | Pressure |     | Weight |    | Description<br>Model Number                             | Page |
|   |                  |      | CF       | m <sup>3</sup> | psig     | bar | lbs.   | kg |   |      |
| CHEMGAZ 2   | Please Inquire   |      |          |                |          |     |        |    |   |      |
| CHEMGAZ 1   | 99%              | 44   | 53       | 2              | 500      | 35  | 137    | 62 | Single-Stage<br>Tied-Diaphragm Regulator<br>Q1-217A-660 | 272  |
|   |                  |      |          |                |          |     |        |    | Cross Purge Assembly<br>Q4-P74-660                      | 339  |
| Electronic Grade 3  | 99.99%           | 49   | 55       | 2              | 420      | 29  | 147    | 67 | Application Dependent –<br>Please Inquire               | —    |
| CO <sub>2</sub> < 1 ppm<br>H <sub>2</sub> < 1 ppm<br>H <sub>2</sub> O < 1 ppm<br>O <sub>2</sub> < 1 ppm |                  | 44   | 49       | 1              | 420      | 29  | 137    | 62 |   |      |
| Electronic Grade 2  | 99.95%           | 49   | 55       | 2              | 420      | 29  | 147    | 67 | Application Dependent –<br>Please Inquire               | —    |
| CO <sub>2</sub> < 10 ppm<br>N <sub>2</sub> < 200 ppm<br>N <sub>2</sub> O < 200 ppm<br>THC < 5 ppm       |                  | 44   | 49       | 1              | 420      | 29  | 137    | 62 |   |      |
| Electronic Grade 1  | 99.9%            | 49   | 55       | 2              | 420      | 29  | 147    | 67 | Application Dependent –<br>Please Inquire               | —    |
| CO <sub>2</sub> < 10 ppm<br>N <sub>2</sub> < 300 ppm<br>N <sub>2</sub> O < 600 ppm<br>THC < 10 ppm      |                  | 44   | 49       | 1              | 420      | 29  | 137    | 62 |   |      |

Our SCOTT™ gas delivery equipment is guaranteed to preserve the purity and integrity of your gas. See page 261.