

## Conversion Factors for NO<sub>x</sub>\* for Some Typical Fuels

| Fuel               | Higher heating value, Btu | Stoichiometric   |                     |             | # NO <sub>x</sub> /million Btu equiv. to 1 ppm | ppm NO <sub>x</sub> equiv. to 1# NO <sub>x</sub> /million Btu |
|--------------------|---------------------------|------------------|---------------------|-------------|--|---|
|                    |                           | air required, cf | wet and dry poc, cf | dry poc, cf |  |   |
| Natural gas        | 1000/cf                   | 9.44/cf          | 10.47/cf            | 8.52/cf     | 0.001 21                                       | 829   |
| Coke oven gas      | 530/cf                    | 4.56/cf          | 5.30/cf             | 4.12/cf     | 0.001 10                                       | 909   |
| Commercial propane | 2499/cf                   | 23.8/cf          | 25.77/cf            | 21.8/cf     | 0.001 23                                       | 812   |
| Methanol           | 64 630/gal                | 560/gal          | 608/gal             | 524/gal     | 0.001 14                                       | 876   |
| #2 fuel oil        | 137 080/gal               | 1356/gal         | 1441/gal            | 1270/gal    | 0.001 31                                       | 765   |
| #6 fuel oil        | 153 120/gal               | 1478/gal         | 1554/gal            | 1410/gal    | 0.001 29                                       | 775   |

\* All these conversion factors are for ppmv dry (of NO<sub>2</sub>, CH<sub>4</sub>, CO, SO<sub>2</sub>) at 3% O<sub>2</sub> by volume dry; and per million gross Btu.  
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## Conversion Factors for CH<sub>4</sub>\* CO\* and SO<sub>2</sub>\* for Some Typical Fuels

| Fuel               | #CH <sub>4</sub> /million Btu equiv. to 1 ppm CH <sub>4</sub> | ppm CH <sub>4</sub> equiv. to 1# CH <sub>4</sub> /million Btu | #CO/million Btu equiv. to 1 ppm CO | ppm CO equiv. to 1# CO/million Btu | # SO <sub>2</sub> /million Btu equiv. to 1 ppm SO <sub>2</sub> | ppm SO <sub>2</sub> equiv. to 1# SO <sub>2</sub> /million Btu |
|--------------------|---|---|------------------------------------|------------------------------------|--|---|
| Natural gas        | 0.000 420   | 2380  | 0.000 735                          | 1360                               | 0.001 68   | 595   |
| Coke oven gas      | 0.000 384   | 2608  | 0.000 670                          | 1490                               | 0.001 53   | 653   |
| Commercial propane | 0.000 430   | 2328  | 0.000 750                          | 1330                               | 0.001 72   | 582   |
| Methanol           | 0.000 397   | 2520  | 0.000 696                          | 1440                               | 0.001 59   | 628   |
| #2 fuel oil        | 0.000 454   | 2205  | 0.000 795                          | 1260                               | 0.001 82   | 550   |
| #6 fuel oil        | 0.000 450   | 2223  | 0.000 788                          | 1270                               | 0.001 80   | 555   |

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