H2(g) + Br2(g) → 2HBr(g)

|  |  |
| --- | --- |
| Temperature, Kelvin | Formation Constants, Kf |
| 800 | 7350 |
| 900 | 3010 |
| 1000 | 1470 |
| 1100 | 811 |
| 1200 | 497 |
| 1300 | 327 |

N2(g) + O2(g) →2NO(g)

|  |  |
| --- | --- |
| Temperature, Kelvin | Formation Constants, Kf |
| 1000 | 7.67 x 10-5 |
| 1100 | 2.09 x 10-4 |
| 1200 | 4.80 x 10-4 |
| 1300 | 9.73 x 10-4 |
| 1400 | 1.78 x 10-3 |
| 1500 | 3.01 x 10-3 |

H2(g) + I2(g) → 2HI(g)

|  |  |
| --- | --- |
| Temperature, Kelvin | Formation Constants, Kf |
| 1000 | 5.30 |
| 1100 | 4.93 |
| 1200 | 4.63 |
| 1300 | 4.40 |
| 1400 | 4.21 |
| 1500 | 4.05 |

H2(g) + Cl2(g) → 2HCl(g)

|  |  |
| --- | --- |
| Temperature, Kelvin | Formation Constants, Kf |
| 1000 | 1.84 x 105 |
| 1100 | 6.55 x 104 |
| 1200 | 2.77 x 104 |
| 1300 | 1.33 x 104 |
| 1400 | 7.11 x 103 |
| 1500 | 4.12 x 103 |