Cracking Patterns

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Name | Formula | Peak 1 | | Peak 2 | | Peak 3 | | Rel. Sens. |
| m/z | % | m/z | % | m/z | % |
|  |  |  |  |  |  |  |  |  |  |
| 1 | acetone | C3H6O | 43 | 100 | 58 | 27.1 | 27 | 8 | 3.6 |
|  |  |  |  |  |  |  |  |  |  |
| 2 | air |  | 28 | 100 | 32 | 16 | 14 | 7.2 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 3 | ammonia | NH3 | 17 | 100 | 16 | 80 | 15 | 7.5 | 1.3 |
|  |  |  |  |  |  |  |  |  |  |
| 4 | argon | Ar | 40 | 100 | 20 | 10.7 | 36 | 0.3 | 1.2 |
|  |  |  |  |  |  |  |  |  |  |
| 5 | benzene | C6H6 | 78 | 100 | 52 | 19.4 | 51 | 18.6 | 5.9 |
|  |  |  |  |  |  |  |  |  |  |
| 6 | boron trichloride | BCl3 | 81 | 100 | 83 | 64.7 | 35 | 28.7 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 7 | carbon dioxide | CO2 | 44 | 100 | 28 | 11.4 | 16 | 8.5 | 1.4 |
|  |  |  |  |  |  |  |  |  |  |
| 8 | carbon monoxide | CO | 28 | 100 | 12 | 4.5 | 16 | 0.9 | 1.05 |
|  |  |  |  |  |  |  |  |  |  |
| 9 | carbon tetrafluoride | CF4 | 69 | 100 | 50 | 12 | 19 | 7 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 10 | diborane | B2H6 | 26 | 100 | 27 | 97.4 | 24 | 89.6 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 11 | ethane | C2H6 | 28 | 100 | 27 | 33.3 | 30 | 26.2 | 2.6 |
|  |  |  |  |  |  |  |  |  |  |
| 12 | ethanol | C2H5OH | 31 | 100 | 45 | 34.4 | 29 | 23.4 | 3.6 |
|  |  |  |  |  |  |  |  |  |  |
| 13 | Fomblin oil |  | 69 | 100 | 20 | 28 | 16 | 16 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 14 | Freon 12 | CCl2F2 | 85 | 100 | 87 | 32 | 50 | 16 | 2.7 |
|  |  |  |  |  |  |  |  |  |  |
| 15 | helium | He | 4 | 100 |  |  |  |  | 0.14 |
|  |  |  |  |  |  |  |  |  |  |
| 16 | hydrogen | H2 | 2 | 100 | 1 | 10 |  |  | 0.44 |
|  |  |  |  |  |  |  |  |  |  |
| 17 | hydrogen chloride | HCl | 36 | 100 | 38 | 32.4 | 35 | 17 | 1.6 |
|  |  |  |  |  |  |  |  |  |  |
| 18 | hydrogen sulphide | H2S | 34 | 100 | 32 | 44.4 | 33 | 42 | 2.2 |
|  |  |  |  |  |  |  |  |  |  |
| 19 | isopropyl alcohol | C3H7OH | 45 | 100 | 43 | 16.6 | 27 | 15.7 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 20 | krypton | Kr | 84 | 100 | 86 | 30.5 | 82 | 20.3 | 1.7 |
|  |  |  |  |  |  |  |  |  |  |
| 21 | methane | CH4 | 16 | 100 | 15 | 85.8 | 14 | 15.6 | 1.6 |
|  |  |  |  |  |  |  |  |  |  |
| 22 | methanol | CH3OH | 31 | 100 | 32 | 66.7 | 29 | 64.7 | 1.8 |
|  |  |  |  |  |  |  |  |  |  |
| 23 | neon | Ne | 20 | 100 | 22 | 9.9 | 21 | 0.3 | 0.23 |
|  |  |  |  |  |  |  |  |  |  |
| 24 | nitrogen | N2 | 28 | 100 | 14 | 7.2 | 29 | 0.8 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 25 | oxygen | O2 | 32 | 100 | 16 | 11.4 | 34 | 0.4 | 0.86 |
|  |  |  |  |  |  |  |  |  |  |
| 26 | phosphine | PH3 | 34 | 100 | 33 | 33.1 | 31 | 32.1 | 2.6 |
|  |  |  |  |  |  |  |  |  |  |
| 27 | pump oil |  | 57 | 100 | 43 | 73.3 | 55 | 72.7 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 28 | silane | SiH4 | 30 | 100 | 31 | 78 | 29 | 29 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 29 | silicon tetrafluoride | SiF4 | 85 | 100 | 86 | 5.2 | 28 | 4 | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| 30 | sulphur dioxide | SO2 | 64 | 100 | 48 | 49.3 | 32 | 10.4 | 2.1 |
|  |  |  |  |  |  |  |  |  |  |
| 31 | water | H2O | 18 | 100 | 17 | 23 | 16 | 1.1 | 0.9 |
|  |  |  |  |  |  |  |  |  |  |
| 32 | xenon | Xe | 132 | 100 | 129 | 98.3 | 131 | 78.8 | 3.0 |

https://www.hidenanalytical.com/tech-data/cracking-patterns/