## PM2.5中水溶性无机离子成分分析

### {{season}}PM2.5中水溶性无机离子浓度特征

{{接待中心、胶片厂、地表水厂、监测站}}水溶性离子占PM2.5分别为{{52.5}}%、{{46.8}}%、{{38.0}}%和{{54.0}}%（表6.3-2）。

**表6.3-2 不同站点水溶性无机离子浓度值及在TWSI中所占百分比单位：μg/m3**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **水溶性离子** | **接待中心** | | **胶片厂** | | **地表水厂** | | **监测站（部分）** | | **监测站（全部）** | |
| **平均值** | **百分比** | **平均值** | **百分比** | **平均值** | **百分比** | **平均值** | **百分比** | **平均值** | **百分比** |
| SO42- | 3.77 | 5.2% | 3.64 | 5.5% | 2.76 | 6.5% | 3.93 | 5.3% | 2.26 | 4.6% |
| NO3- | 25.38 | 35.0% | 22.26 | 33.4% | 14.24 | 33.7% | 25.89 | 34.8% | 12.82 | 26.2% |
| NH4+ | 17.61 | 24.2% | 16.99 | 25.5% | 10.40 | 24.6% | 18.35 | 24.7% | 14.63 | 29.9% |
| Cl- | 23.09 | 31.8% | 21.64 | 32.5% | 12.96 | 30.6% | 23.86 | 32.1% | 13.56 | 27.7% |
| K+ | 0.47 | 0.7% | 0.37 | 0.6% | 0.34 | 0.8% | 0.53 | 0.7% | 0.52 | 1.1% |
| Na+ | 1.45 | 2.0% | 1.01 | 1.5% | 0.86 | 2.0% | 1.02 | 1.4% | 1.10 | 2.3% |
| Mg2+ | 0.07 | 0.1% | 0.07 | 0.1% | 0.05 | 0.1% | 0.06 | 0.1% | 0.14 | 0.3% |
| Ca2+ | 0.75 | 1.0% | 0.58 | 0.9% | 0.69 | 1.6% | 0.70 | 0.9% | 1.74 | 3.6% |

{{接待中心}}最主要的水溶性无机离子NO3-、SO42-和NH4+浓度分别为：{{25.3820}}μg/m3、{{17.6067}}μg/m3、{{23.0928}}μg/m3，占TWSI的{{34.96.}}%，{{24.25}}%，{{31.81}}%，其余5种水溶性无机离子之和占TWSI的{{8.98}}%（图6.3-6）。



**图6.3-6 {{接待中心}}PM2.5中水溶性无机离子所占的百分比**