

Package ‘con2aqi’

August 20, 2018

Type Package

Title Calculate the AQI from Pollutant Concentration

Version 0.1.0

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Description To calculate the AQI (Air Quality Index) from pollutant concentration data. O3, PM2.5, PM10, CO, SO2, and NO2 are available currently. The method can be referenced at Environmental Protection Agency, United States as follows: EPA (2016) <<https://www3.epa.gov/airnow/aqi-technical-assistance-document-may2016.pdf>>.

License GPL-3

Encoding UTF-8

LazyData true

Imports utils

NeedsCompilation no

Repository CRAN

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R topics documented:

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Description

To calculate the AQI (Air Quality Index) from pollutant concentration data. O3, PM2.5, PM10, CO, SO2, and NO2 are available currently. The method can be referenced at Environmental Protection Agency, United States as follows: EPA (2016) <<https://www3.epa.gov/airnow/aqi-technical-assistance-document-may2016.pdf>>.

Usage

```
con2aqi(pollutant, con, type)
```

Arguments

| | |
|-----------|---|
| pollutant | character, one of the following pollutants: "o3", "pm25", "pm10", "co", "so2", and "no2" |
| con | numeric or numeric vector, concentration of the pollutant, the units of the pollutants are as follows: ppm, microgram per cubic metres, microgram per cubic metres, ppm, ppb, ppb |
| type | character, only for "O3", one of the following types: "8h" and "1h" |

Value

| | |
|-----|-------------------|
| aqi | air quality index |
|-----|-------------------|

Note

Please feel free to contact us, if you have any advice and find any bug!

Reference:

Air Quality Assessment Division, Office of Air Quality Planning and Standards, Environmental Protection Agency, United States. Publication No. EPA-454/B-16-002. <https://www3.epa.gov/airnow/aqi-technical-assistance-document-may2016.pdf>

Updates:

Updates is coming.

Author(s)

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Examples

```
con2aqi(pollutant="o3", con=0.078, type="8h")#126
con2aqi(pollutant="o3", con=0.162, type="1h")#148
con2aqi(pollutant="pm25", con=35.9)#102
con2aqi(pollutant="co", con=8.4)#90
```

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