Package 'con2aqi'

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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>.

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Usage

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

Arguments

pollutant	chatacter, 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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