

# Planet Venus

Diameter: 12,104 km - here: 12.1 mm

Mass:  $4.9 \cdot 10^{24}$  kg

Surface temperature: +464 °C (average)

Distance to the Sun: 108 million km - here: 108 m

Orbital period: 224.7 days

Number of moons: 0

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## Planet Venus



Bild (Venus):

Author: Image processing by R. Nunes", link to <http://www.astrosurf.com/nunes>  
[https://de.wikipedia.org/wiki/Venus\\_\(Planet\)#/media/Datei:Venus-real\\_color.jpg](https://de.wikipedia.org/wiki/Venus_(Planet)#/media/Datei:Venus-real_color.jpg)

The second closest planet to the Sun is Venus (astronomical symbol is ♀), named after the Roman goddess of love and beauty. The planet Venus is very similar to Earth in size and therefore was understood as a sister planet of Earth. Already the first flybys of space probes delivered a completely different picture. Venus has a very large and dense atmosphere, almost 100 times denser than that of Earth. The atmosphere consists mainly of carbon dioxide, the well-known greenhouse gas. This, together with its proximity to the sun, creates extremely high temperatures on the surface (lead is liquid there). Venus is therefore not very inviting.

Another peculiarity is that the Venus day is longer than the Venus year. It rotates extremely slowly around itself and additionally upside down. With her, the sun rises in the west. She is also called evening and morning star.

**Important Data of the Venus:**

Semi-major axis:	0.72 AU (108.16 mio. km)
Perihelion – Aphelion:	0.72 – 0.73 AU
Eccentricity:	0.01
Ecliptic Inclination:	3.4°
Orbital period (sidereal):	224.70 days
Average orbital speed:	35.02 km/s
Smallest – biggest earth distance:	0.26 – 1.74 AU
Equator diameter:	12,103.6 km
Pole diameter:	12,103.6 km
Mass:	about 0.82 earth masses ( $4.87 \cdot 10^{24}$ kg)
Mean density:	5.24 g/cm <sup>3</sup>
Surface gravity:	8.87 m/s <sup>2</sup>
Escape velocity:	10.36 km/s
Sidereal rotation period:	243 days 27 min
Axial tilt:	177.36°
Surface pressure:	92 bar
Temperature (min. - Medium - max.):	710 K (437 °C) - 737 K (464 °C) - 770 K (497 °C)

**Link:** <https://en.wikipedia.org/wiki/Venus>