

# ISO Geodetic Registry

<i>Item class</i>	Ellipsoid
<i>Name</i>	<b>WGS 84</b>
<i>Item status</i>	VALID
<i>Identifier</i>	30
<i>Alias</i>	WGS84
<i>Information source</i>	<p><i>Title</i> Department of Defense World Geodetic System 1984: Its Definition and Relationships with Local Geodetic Systems, Version 1.0.0</p> <p><i>Author</i> National Geospatial-Intelligence Agency</p> <p><i>Publisher</i> National Geospatial-Intelligence Agency</p> <p><i>Publication date</i> 2014-07-08</p> <p><i>Series/Journal name</i> Standardization Document</p> <p><i>Issue identification</i> NGA.STND.0036_1.0.0_WGS84</p>
<i>Information source</i>	<p><i>Title</i> World Geodetic System 1984</p> <p><i>Author</i> L.B. Decker, Defense Mapping Agency Aerospace Center</p> <p><i>Publisher</i> Defense Mapping Agency Aerospace Center</p> <p><i>Publication date</i> 1986-04</p> <p><i>Edition date</i></p>
<i>Information source</i>	<p><i>Title</i> Refinements to The World Geodetic System 1984</p> <p><i>Author</i> S. Malys, J.A. Slater, R.W. Smith, L.E. Kunz, S.C. Kenyon</p> <p><i>Publisher</i> Institute of Navigation</p> <p><i>Publication date</i> 1997-09</p> <p><i>Edition date</i></p> <p><i>Series/Journal name</i> Proceedings of the 10th International Technical Meeting of the Satellite Division of The Institute of Navigation (ION-GPS-1997), Kansas City, MO, September 1997</p> <p><i>Page</i> 841-850</p>
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	The World Geodetic System 1984 (WGS 84) contains four defining physical parameters for the Earth: the semi-major axis (a), the reciprocal of flattening (1/f) of an oblate spheroid of revolution, the geocentric gravitational constant ( $GM = 3.986004418 \times 10^{14} \text{ m}^3/\text{s}^2$ ) includes the mass of the atmosphere, and the Earth's angular rotational velocity about its spin axis ( $\omega = 7.2921150 \times 10^{-5} \text{ rad/s}$ ).
<i>Semi-major axis</i>	6378137.0 m
<i>Inverse flattening</i>	298.2572236 m