

**Table 1.** Median values and 68% confidence interval for OGLE-TR-1094.

Parameter	Units	Values
Stellar Parameters:		
$M_*$	Mass ( $M_\odot$ )	$1.006^{+0.041}_{-0.050}$
$R_*$	Radius ( $R_\odot$ )	$1.65^{+0.17}_{-0.21}$
$R_{*,SED}$	Radius <sup>1</sup> ( $R_\odot$ )	$1.79^{+0.18}_{-0.21}$
$L_*$	Luminosity ( $L_\odot$ )	$1.49^{+0.28}_{-0.27}$
$F_{Bol}$	Bolometric Flux (cgs)	$0.000000000230^{+0.0000000000010}_{-0.0000000000011}$
$\rho_*$	Density (cgs)	$0.315^{+0.16}_{-0.079}$
$\log g$	Surface gravity (cgs)	$4.006^{+0.12}_{-0.084}$
$T_{eff}$	Effective Temperature (K)	$4990^{+170}_{-160}$
$T_{eff,SED}$	Effective Temperature <sup>1</sup> (K)	$4780^{+140}_{-120}$
[Fe/H]	Metallicity (dex)	$0.35^{+0.13}_{-0.33}$
[Fe/H] <sub>0</sub>	Initial Metallicity <sup>2</sup>	$0.35^{+0.12}_{-0.31}$
Age	Age (Gyr)	$12.61^{+0.89}_{-1.7}$
EEP	Equal Evolutionary Phase <sup>3</sup>	$461.1^{+6.0}_{-10.}$
$A_V$	V-band extinction (mag)	$1.813^{+0.038}_{-0.084}$
$\sigma_{SED}$	SED photometry error scaling	$10.9^{+2.0}_{-1.5}$
$\varpi$	Parallax (mas)	$0.692^{+0.071}_{-0.056}$
$d$	Distance (pc)	$1450 \pm 130$
Planetary Parameters:		
		b
$P$	Period (days)	$13.20038^{+0.00018}_{-0.00017}$
$R_P$	Radius ( $R_J$ )	$1.62^{+0.16}_{-0.20}$
$M_P$	Mass <sup>4</sup> ( $M_J$ )	$0.404^{+0.46}_{-0.027}$
$T_C$	Time of conjunction <sup>5</sup> (BJD <sub>TDB</sub> )	$2455388.402^{+0.023}_{-0.026}$
$T_T$	Time of minimum projected separation <sup>6</sup> (BJD <sub>TDB</sub> )	$2455388.402^{+0.023}_{-0.026}$
$T_0$	Optimal conjunction Time <sup>7</sup> (BJD <sub>TDB</sub> )	$2457038.449^{+0.010}_{-0.011}$
$a$	Semi-major axis (AU)	$0.1096^{+0.0015}_{-0.0018}$
$i$	Inclination (Degrees)	$89.18^{+0.58}_{-0.88}$
$T_{eq}$	Equilibrium temperature <sup>8</sup> (K)	$929^{+41}_{-44}$
$\tau_{circ}$	Tidal circularization timescale (Gyr)	$7.7^{+25}_{-2.8}$
$K$	RV semi-amplitude <sup>4</sup> (m/s)	$34.6^{+40}_{-2.6}$
$R_P/R_*$	Radius of planet in stellar radii	$0.1012^{+0.0062}_{-0.0063}$
$a/R_*$	Semi-major axis in stellar radii	$14.3^{+2.1}_{-1.3}$
$\delta$	$(R_P/R_*)^2$	$0.0102^{+0.0013}_{-0.0012}$
$\delta_I$	Transit depth in I (fraction)	$0.0128 \pm 0.0015$
$\delta_V$	Transit depth in V (fraction)	$0.0150^{+0.0019}_{-0.0018}$
$\tau$	Ingress/egress transit duration (days)	$0.0306^{+0.0045}_{-0.0042}$
$T_{14}$	Total transit duration (days)	$0.312^{+0.030}_{-0.035}$

Table 1 continued on next page

Table 1 (continued)

Parameter	Units	Values	
$T_{FWHM}$ ..	FWHM transit duration (days) .....	0.280 <sup>+0.029</sup> <sub>-0.032</sub>	
$b$ .....	Transit Impact parameter .....	0.21 <sup>+0.20</sup> <sub>-0.15</sub>	
$\delta_{S,2.5\mu m}$ ..	Blackbody eclipse depth at 2.5 $\mu m$ (ppm) .....	45 $\pm$ 13	
$\delta_{S,5.0\mu m}$ ..	Blackbody eclipse depth at 5.0 $\mu m$ (ppm) .....	377 <sup>+63</sup> <sub>-64</sub>	
$\delta_{S,7.5\mu m}$ ..	Blackbody eclipse depth at 7.5 $\mu m$ (ppm) .....	695 $\pm$ 99	
$\rho_P$ .....	Density <sup>4</sup> (cgs) .....	0.114 <sup>+0.26</sup> <sub>-0.027</sub>	
$\log g_P$ ..	Surface gravity <sup>4</sup> .....	2.567 <sup>+0.46</sup> <sub>-0.080</sub>	
$\Theta$ .....	Safronov Number .....	0.0529 <sup>+0.081</sup> <sub>-0.0057</sub>	
$\langle F \rangle$ .....	Incident Flux (10 <sup>9</sup> erg s <sup>-1</sup> cm <sup>-2</sup> ) .....	0.170 <sup>+0.032</sup> <sub>-0.030</sub>	
$T_P$ .....	Time of Periastron (BJD <sub>TDB</sub> ) .....	2455388.402 <sup>+0.023</sup> <sub>-0.026</sub>	
$T_S$ .....	Time of eclipse (BJD <sub>TDB</sub> ) .....	2455395.003 <sup>+0.023</sup> <sub>-0.026</sub>	
$T_A$ .....	Time of Ascending Node (BJD <sub>TDB</sub> ) .....	2455398.303 <sup>+0.023</sup> <sub>-0.026</sub>	
$T_D$ .....	Time of Descending Node (BJD <sub>TDB</sub> ) .....	2455391.703 <sup>+0.023</sup> <sub>-0.026</sub>	
$V_c/V_e$ ..	.....	1.00	
$M_P \sin i$ ..	Minimum mass <sup>4</sup> ( $M_J$ ) .....	0.404 <sup>+0.46</sup> <sub>-0.027</sub>	
$M_P/M_*$ ..	Mass ratio <sup>4</sup> .....	0.000384 <sup>+0.00045</sup> <sub>-0.000032</sub>	
$d/R_*$ ..	Separation at mid transit .....	14.3 <sup>+2.1</sup> <sub>-1.3</sub>	
$P_T$ .....	A priori non-grazing transit prob .....	0.0630 <sup>+0.0065</sup> <sub>-0.0083</sub>	
$P_{T,G}$ .....	A priori transit prob .....	0.0772 <sup>+0.0076</sup> <sub>-0.0099</sub>	
Wavelength Parameters:		I	V
$u_1$ .....	linear limb-darkening coeff .....	0.425 <sup>+0.058</sup> <sub>-0.060</sub>	0.675 <sup>+0.069</sup> <sub>-0.074</sub>
$u_2$ .....	quadratic limb-darkening coeff .....	0.216 <sup>+0.053</sup> <sub>-0.052</sub>	0.111 <sup>+0.064</sup> <sub>-0.062</sub>
Transit Parameters:		OGLE UT 2010-07-10 (I)	OGLE UT 2010-07-10 (V)
$\sigma^2$ .....	Added Variance .....	0.0001109 <sup>+0.0000026</sup> <sub>-0.000025</sub>	0.0083 <sup>+0.0013</sup> <sub>-0.0011</sub>
$F_0$ .....	Baseline flux .....	1.00014 $\pm$ 0.00016	0.9923 $\pm$ 0.0091

See Table 3 in Eastman, J. et al., 2019, arXiv:1907.09480 for a detailed description of all parameters

<sup>1</sup>This value ignores the systematic error and is for reference only

<sup>2</sup>The metallicity of the star at birth

<sup>3</sup>Corresponds to static points in a star's evolutionary history. See §2 in Dotter, A., 2016, ApJS, 222, 8

<sup>4</sup>Uses measured radius and estimated mass from Chen, J., & Kipping, D. 2017, ApJ, 834, 17

<sup>5</sup>Time of conjunction is commonly reported as the "transit time"

<sup>6</sup>Time of minimum projected separation is a more correct "transit time"

<sup>7</sup>Optimal time of conjunction minimizes the covariance between  $T_C$  and Period

<sup>8</sup>Assumes no albedo and perfect redistribution