Data product or source type	Typical uncertainty
Five-parameter astrometry (position & parallax)	0.02–0.04 mas at $G < 15$ 0.1 mas at $G = 17$ 0.7 mas at $G = 20$ 2 mas at $G = 21$
Five-parameter astrometry (proper motion)	0.07 mas yr^{-1} at $G < 15$ 0.2 mas yr^{-1} at $G = 17$ 1.2 mas yr^{-1} at $G = 20$ 3 mas yr^{-1} at $G = 21$
Two-parameter astrometry (position only)	1–4 mas
Systematic astrometric errors (averaged over the sky)	< 0.1 mas
Gaia-CRF2 alignment with ICRF	0.02 mas at $G = 19$
Gaia-CRF2 rotation with respect to ICRF	< 0.02 mas yr^{-1} at $G = 19$
Gaia-CRF2 alignment with ICRF	0.3 mas at $G < 12$
Gaia-CRF2 rotation with respect to ICRF	< 0.15 mas yr^{-1} at $G < 12$
Mean G-band photometry	0.3 mmag at $G < 13$ 2 mmag at $G = 17$ 10 mmag at $G = 20$
Mean G_{BP}- and G_{RP}-band photometry	2 mmag at $G < 13$ 10 mmag at $G = 17$ 200 mmag at $G = 20$
Median radial velocity over 22 months	0.3 km s^{-1} at $G_{RVS} < 8$ 0.6 km s^{-1} at $G_{RVS} = 10$ 1.8 km s^{-1} at $G_{RVS} = 11.75$
Systematic radial velocity errors	< 0.1 km s^{-1} at $G_{RVS} < 9$ 0.5 km s^{-1} at $G_{RVS} = 11.75$
Effective temperature T_{eff}	324 K
Extinction A_G	0.46 mag
Colour excess $E(G_{BP} - G_{RP})$	0.23 mag
Radius	10%
Luminosity	15%
Solar system object epoch astrometry	1 mas (in scan direction)