

Resource: colors

Compilation of measurements of colors of asteroids.

For each measurement ([value](#) \pm [uncertainty](#)), the SSO identification, description of filters , and metadata on where/when/how the observation was taken are listed.

Description of columns

Column	Type	Description
num	int	Asteroid IAU Number if available
name	str	Asteroid name or designation
color	str	Human-readable “name” of the color (g-r)
value	float	Value of the color (i.e, magnitude difference)
uncertainty	float	Uncertainty on the colors
from	str	Survey/Telescope acquiring the data
observer	str	IAU ObsCode for the telescope
epoch	float	Epoch of observation, in JD
delta_time	float	Time interval between the two filters (s)
color_type	str	How color was computed: apparent, corrected for lightcurve...
id_filter_1	str	Unique identifier for the first filter (from SVO Filter)
id_filter_2	str	Unique identifier for the second filter (from SVO Filter)
phot_sys	str	Photometric system for the color (Vega, AB, ST)
selection	int	Flag for selection (black list, neutral, forced: -1/0/1)
iddataset	int	Unique dataset identifier from the source.ods file

Methods

The columns [color_type](#) and [phot_sys](#) only accept a limited number of valid entries.

color_type

- [app](#) : The color is simply computed from the two apparent magnitudes in the two filters
- [lc_cor](#) : The rotational light curve is taken into account to compute the color
- [abs](#) : The color is computed from the difference of *absolute magnitudes* in the two filters

phot_sys

- [Vega](#) : The color is reported in the **Vega** photometric system
- [AB](#) : The color is reported in the **AB** photometric system
- [ST](#) : The color is reported in the **ST** photometric system

Regarding filter ids

We use the unique identifier of each filter as provided by the [SVO Filter Profile Service](#) (Rodrigo et al. 2012, Rodrigo & Solano 2020).

Search the telescope/instrument in the [SVO Filter Profile Service](#). If you cannot find it, use one of the [Generic filters](#)