bisecting conformation (eclipsing conformation)

For a structure containing the grouping $R_3C-C(Y)=X$ (with identical or different groups $R$) the conformation in which the torsion angle is such that $X$ is antiperiplanar to one of the groups $R$, and, in a Newman projection, the double bond $C=X$ bisects one of the $R-C-R$ angles. In this conformation the bond $C-Y$ eclipses one of the $C-R$ bonds. The other conformation, in which $X$ is synperiplanar to one of the groups $R$, is called an eclipsing conformation.

![Diagram](image)

Source:
PAC, 1996, 68, 2193 (Basic terminology of stereochemistry (IUPAC Recommendations 1996)) on page 2201