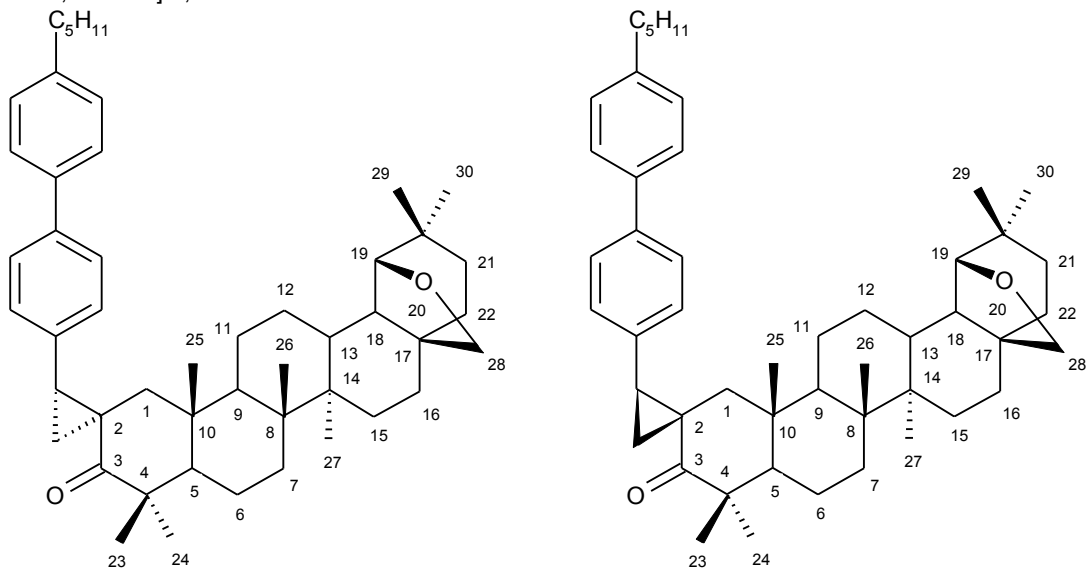


The invention relates to the field of organic synthesis and materials of liquid crystals (LC), in particular, to the development of new chiral impurities (CD) for liquid crystal, chiral nematic mixtures, namely (1S, 2S) - and (1R,2R)-1-[4'-amil-1,1'-bifenil]-2,2' formula:



Also described nematic RK-chiral mixture composed of nematic matrices HD and optically active (1S, 2S) - and (1R,2R)-1-[4'-amil1,1'-bifenil]-2,2'. Have proposed a high swirl HD capability, allowing the mixture to obtain RK selective reflection of light in the visible range of the spectrum (from purple to red) in concentrations 3,3-6,7 wt. %. The maximum wavelength of the selective reflected light hardly varies with temperature. LC mixtures containing the CD, a phase characterized by stability.