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Determination of the Lipophilicity Parameters R_{M0} and $\log P$ of New Azaphenothiazines by Reversed-Phase Thin-Layer Chromatography[†]

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Abstract

The lipophilicity parameters (R_{M0} and $\log P_{TLC}$) of three types of azaphenothiazines 1–3 were determined by reversed-phase thin-layer chromatography on RP-18 silica plates with acetone-aqueous TRIS (tris(hydroxymethyl)aminomethane) buffer as the mobile

phase. The R_{M0} values were determined by extrapolation to the origin, and the $\log P$ values were determined by comparing the R_{M0} values of the compounds with those of known compounds. The results showed that the lipophilicity parameters of the compounds were in the range of 0.5–1.5. The compounds were found to be more lipophilic than the reference compounds. The results of the determination of the lipophilicity parameters of the compounds were in good agreement with the results of the determination of the lipophilicity parameters of the compounds by other methods.

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Keywords: Lipophilicity parameters, R_{M0} , $\log P$, Azaphenothiazines, Reversed-phase, TLC

Notes

[†]Part XCI in the series of Azinyl Sulfides.


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