
Jarosław Lewkowski, Maria Rodriguez Moya, Marta Chmielak, Diana Rogacz, Kamila Lewicka, and Piotr Rychter

Figures 1–7—Spectra of compounds 3a–d, 4 and 5.

![Spectra of compounds 3a–d, 4 and 5.](image)

Figure S1. (a) Diphenyl N-phenylamino(pyren-1-yl)methylphosphonate (3a). 1H-NMR—followed by enlarged fragments.
Figure S1. (b) Diphenyl N-phenylamino(pyren-1-yl)methylphosphonate (3c). $^{31}\text{P}$-NMR.
Figure S1. (c) Diphenyl N-phenylamino(pyren-1-yl)methylphosphonate (3a). $^{13}$C-NMR—followed by enlarged fragments.
Figure S2. (a) Diphenyl N-(4-methoxyphenyl)amino(pyren-1-yl)methylphosphonate (3b). $^1$H-NMR—followed by enlarged fragments.
Figure S2. (b) Diphenyl N-(4-methoxyphenyl)amino(pyren-1-yl)methylphosphonate (3b). $^{13}$C-NMR—followed by enlarged fragments.
Figure S2. (c) Diphenyl N-(4-methoxyphenyl)amino(pyren-1-yl)methylphosphonate (3b). $^{31}$P-NMR.
Figure S3. (a) Diphenyl N-(4-methylphenyl)amino(pyren-1-yl)methylphosphonate (3c). $^1$H-NMR—followed by enlarged fragments.

Figure S3. (b) Diphenyl N-(4-methylphenyl)amino(pyren-1-yl)methylphosphonate (3c). $^{31}$P-NMR.
Figure S3. (c) Diphenyl N-(4-methylphenyl)amino(pyren-1-yl)methylphosphonate (3c). $^{13}$C-NMR—followed by enlarged fragments.
Figure S4. (a) Diphenyl N-benzylamino(pyren-1-yl)methylphosphonate (3d). $^1$H-NMR—followed by enlarged fragments.
Figure S4. (b) Diphenyl N-benzylamino(pyren-1-yl)methylphosphonate (3d). ^31^P-NMR.
Figure S4. (c) Diphenyl N-benzylamino(pyren-1-yl)methylphosphonate (3d). $\text{^{13}C-}$NMR—followed by enlarged fragments.
Figure S5. (a) Dimethyl \(N\)-(R)-\(\alpha\)-methylbenzylamino(pyren-1-yl)methylphosphonate (4). Isolated predominant diastereoisomer \(^1\)H-NMR—followed by enlarged fragments.
Figure S5. (b) Dimethyl N-(R)-α-methylbenzylamino(pyren-1-yl)methylphosphonate (4). Isolated predominant diastereoisomer $^{31}$P-NMR.
Figure S5. (c) Dimethyl N-(R)-α-methylbenzylamino(pyren-1-yl)methylphosphonate (4). Isolated predominant diastereoisomer $^{13}$C-NMR—followed by enlarged fragments.
Figure S6. (a) Dimethyl N-(R)-α-methylbenzylamino(pyren-1-yl)methylphosphonate (4). Mixture of diastereoisomers ¹H-NMR—followed by enlarged fragments.
Figure S6. (b) Dimethyl N-(R)-α-methylbenzylamino(pyren-1-yl)methylphosphonate (4). Mixture of diastereoisomers $^{31}$P-NMR.
Figure S7. (a) Dibenzyl N-(R)-α-methylbenzylamino(pyren-1-yl)methylphosphonate (5). Mixture of diastereoisomers 1H-NMR—followed by enlarged fragments.
Figure S7. (b) Dibenzyl N-(R)-α-methylbenzylamino(pyren-1-yl)methylphosphonate (5). Mixture of diastereoisomers $^{31}$P-NMR.
Figure S7. (c) Dibenzyl N-(R)-α-methylbenzylamino(pyren-1-yl)methylphosphonate (5). Mixture of diastereoisomers $^{13}$C-NMR—followed by enlarged fragments.