

were dried ( $\text{Na}_2\text{SO}_4$ ) and evaporated. Distillation of the residue gave 12.0 g (92%) of isomeric esters **7** and **8** in the ratio 75:25, b.p. 84–86°/0.05 Torr;  $d_4^{20} = 0.9208$ ;  $n_D^{20} = 1.4863$ . Separation was achieved by fractional distillation.

**7.** NMR.-spectrum<sup>2)</sup>: 0.92 (3H, *t*,  $J = 5$  Hz,  $-\text{CH}_3$ ); 1.30 (3H, *t*,  $J = 7$  Hz,  $-\text{CH}_3$ ); 2.0–2.5 (2H, *m*,  $\text{>C}=\overset{|}{\underset{|}{\text{C}}}-\text{CH}_2-$ ); 4.13 (2H, *q*,  $J = 7$  Hz,  $-\text{O}-\text{CH}_2-$ ); 5.75 (1H, *d*,  $J = 15$  Hz,  $\text{>C}=\text{CH}_a-$ ); 5.5–6.3 (2H, *m*,  $\text{>C}=\text{CH}_b-$ ,  $\text{>C}=\text{CH}_c-$ ); 7.48 (1H, *d* of *d*,  $J = 15$  Hz,  $\text{>C}=\text{CH}_d-$ ) ppm. - IR.-spectrum: 1710 ( $\text{>C}=\text{O}$ ), 1640, 1600 ( $\text{>C}=\overset{|}{\underset{|}{\text{C}}}-\overset{|}{\underset{|}{\text{C}}}=\text{C}<$ ), 992 ( $-\text{CH}=\text{CH}-$ , *trans*), 705 ( $-\text{CH}=\text{CH}-$ , *cis*)  $\text{cm}^{-1}$ . - MS.:  $M^+$  196 (44); *m/e*: 167 (4), 151 (43), 139 (3), 125 (77), 108 (19), 97 (71), 81 (100), 67 (81), 55 (42).

**8.** NMR.-spectrum<sup>1)</sup>: 0.89 (3H, *t*,  $J = 5$  Hz,  $-\text{CH}_3$ ); 1.28 (3H, *t*,  $J = 7$  Hz,  $-\text{CH}_3$ ); 1.9–2.3 (2H, *m*,  $\text{>C}=\overset{|}{\underset{|}{\text{C}}}-\text{CH}_2-$ ); 4.13 (2H, *q*,  $J = 7$  Hz,  $-\text{O}-\text{CH}_2-$ ); 5.72 (1H, *d*,  $J = 15$  Hz,  $\text{>C}=\text{CH}_a-$ ); 6.0–6.25 (2H, *m*,  $\text{>C}=\text{CH}_b$ ,  $\text{>C}=\text{CH}_c$ ); 6.95–7.50 (1H, *m*,  $\text{>C}=\text{CH}_d-$ ) ppm. - IR.-spectrum: 1710 ( $\text{>C}=\text{O}$ ), 1640, 1620 ( $\text{>C}=\overset{|}{\underset{|}{\text{C}}}-\overset{|}{\underset{|}{\text{C}}}=\text{C}<$ ), 998 ( $-\text{CH}=\text{CH}-$ , *trans*)  $\text{cm}^{-1}$ . - MS.:  $M^+$  196 (47); *m/e*: 181 (3), 151 (40), 139 (4), 125 (100), 111 (13), 97 (76), 81 (84), 67 (61), 55 (8), 41 (36).

## REFERENCES

- [1] F. Näf & P. Degen, *Helv.* **54**, 1939 (1971).
- [2] F. Näf, P. Degen & G. Ohloff, *Helv.* **55**, 82 (1972).
- [3] L. Crombie, *J. chem. Soc.* **1955**, 1007.
- [4] D. E. Heinz & W. G. Jennings, *J. Food Sci.* **31**, 69 (1966); W. G. Jennings & R. K. Creveling, *ibid.* **28**, 91 (1963); W. G. Jennings, R. K. Creveling & D. E. Heinz, *ibid.* **29**, 730 (1964)-; W. G. Jennings & M. R. Sevenants, *ibid.* **29**, 158 (1964).
- [5] K. H. Schulte-Elte, B. Willhalm & G. Ohloff, *Angew. Chem.* **81**, 1045 (1959); *ibid.* Int. Ed. **8**, 985 (1969).
- [6] G. Wittig & U. Schöllkopf, *Org. Synth.* **40**, 66 (1960); G. Wittig, *Angew. Chem.* **68**, 505 (1956); U. Schöllkopf, *ibid.* **71**, 260 (1959).
- [7] M. Schlosser & K. F. Christman, *Liebigs Ann. Chem.* **708**, 1 (1967).
- [8] R. E. Ireland in L. F. Fieser and M. Fieser 'Reagents for Organic Synthesis' **1**, 817 (1967).
- [9] E. J. Corey, N. W. Gilman & B. E. Ganem, *J. Amer. chem. Soc.* **90**, 5616 (1968).

<sup>2)</sup> Designation of olefinic protons:  $\text{CH}_3(\text{CH}_2)_4\text{CH}_e = \text{CH}_b-\text{CH}_d=\text{CH}_a-\text{CO}_2\text{Et}$ .

## Erratum

*Helv.* **56**, 442, (1973), Abhandlung Nr. 33 von Th. Wagner-Jauregg, Q. Ahmed und E. Pretsch: Die Fussnote <sup>4)</sup> soll richtig lauten: Die Chemical Abstracts Bezeichnung für **9** ist *N*,2-Dialkyl-1,2,3,3a,4,5-hexahydro-1,3-dioxo-9*bH*-pyrrolo[3,4-*f*]quinoline-9*b*-succinimide

oder

*N*-Alkyl-5-(1-alkyl-2,5-dioxo-3-pyrrolidinyl)-5,6,7,8-tetrahydro-5,6-quinolinedi-carboximide

oder

2-Alkyl-9*b*-(1-alkyl-2,5-dioxo-3-pyrrolidinyl)-3*a*,4,5,9*b*-tetrahydro-1*H*-pyrrolo[3,4-*f*]quinoline-1,3-(2*H*)-dione.