

Explosion hazard

2-FLUORO[(DIMETHYLAMINO)METHYL]FERROCENE. A WARNING

J.H.J. PEET

Department of Science and Metallurgy, North Lindsey College of Technology, Scunthorpe, South Humberside (Great Britain)

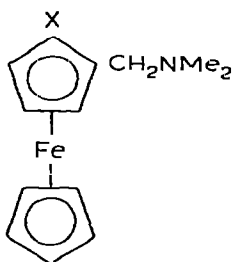
B.W. ROCKETT

Department of Physical Sciences, The Polytechnic, Wolverhampton (Great Britain)

(Received October 18th, 1974)

In our investigations of 2-substituted [(dimethylamino)methyl] ferrocenes (I) [1] we have obtained the halogeno compounds (I; X = Cl, Br, I) [2]. The fluoro derivative (I; X = F) was of interest to complete the studies on the proton magnetic resonance spectra of the halogeno compounds [3], but has so far been unobtainable.

Hedberg and Rosenberg recently reported [4] the preparation of fluoroferrocene from lithioferrocene and perchloryl fluoride. A preliminary investigation of the preparation of the 2-fluoro compound (I; X = F) by the reaction between the lithio amine (I; X = Li) and perchloryl fluoride at



(I)

−78°C proceeded smoothly yielding a small quantity of material which appeared to be the required substance. However, when the reaction was repeated a violent explosion occurred, resulting in burns and cuts to the worker. Fortunately, the application of basic safety precautions reduced the injuries to a minimum. Since we have not been able to confirm the cause of the explosion, we would draw the attention of other workers to this potential hazard in the preparation.

References

- 1 J.H.J. Peet and B.W. Rockett, *Rev. Pure Appl. Chem.*, **22** (1972) 145.
- 2 G. Marr, R.E. Moore and B.W. Rockett, *J. Chem. Soc. C*, (1968) 24.
- 3 D.W. Slocum and T.R. Engelmann, *J. Org. Chem.*, **34** (1969) 4101.
- 4 F.L. Hedberg and H. Rosenberg, *J. Organometal. Chem.*, **28** (1971) C14.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 82 (1974)

AUTHOR INDEX

- | | | |
|----------------------------|--------------------------|--------------------------|
| Adams, R.D., C7 | Dabescat, F., 41 | Johnson, B.F.G., 257 |
| Airoldi, M., 155 | Damrauer, R., 201 | Jones, P.R., 57 |
| Anderson, W.P., 375 | Davies, A.G., 301 | Jones, T.B., 89 |
| Andrews, M.N., 29 | Davis, D.D., C30 | Jutzi, P., 209 |
| Aoyama, T., 21 | Devaprabhakara, D., C1, | |
| Ardoin, N., 217 | C27 | Kadlec, V., 113 |
| Arzoumanian, H., 261 | Dewar, M.J.S., 89 | Kadlecová, H., 113 |
| Ashley-Smith, J., 257 | Drews, M.J., 57 | Kartashov, V.R., C23 |
| Attig, T.G., 397 | Duboudin, F., 41 | Kato, S., 223 |
| | Duffaut, N., 217 | Kaufmann, J., 333 |
| Bachlas, B.P., 359 | Dunogués, J., 217 | Kelen, G.P. Van der, 345 |
| Ball, M.C., 277 | Du Preez, A.L., C40 | Kirchner, R.M., 243 |
| Bau, R., C43 | | Knox, S.A.R., C43 |
| Beauchamp, A.L., 231 | Elaborn, C., 13, 17, 327 | Kober, F., 333 |
| Beier, K., 209 | Elmes, P.S., 235 | Kolb, J.R., C35 |
| Belluco, U., 421 | Emptoz, G., 139 | Koten, G. van, C53 |
| Berghé, E. V. Van den, 345 | Ernst, L., 319 | Koval'ova, L.I., C23 |
| Bhagwat, M.M., C27 | | Krebs, G., 383 |
| Bickelhaupt, F., 291 | Fahey, D.R., 127 | Kruger, G., C40 |
| Bischof, P.K., 89 | Felten, J.J., 375 | Kuhn, N., C3 |
| Black, R.H., C30 | Frainnet, E., 41 | |
| Blanc, A.A., 261 | | Laing, M., C40 |
| Blanck, B., 231 | Gatehouse, B.M., 235 | Lambert, P., C19 |
| Blomberg, C., 291 | Golden, H.J., 127 | Lewis, J., 257 |
| Bochkarev, M.N., 65 | Goodman, D.W., 89 | Limouzin, Y., 99 |
| Bodrikov, I.V., C23 | Graziani, M., 421 | Lindner, E., 73, 81 |
| Bøe, B., 13, 17, 327 | | |
| Brabant, C., 231 | Habeeb, J.J., C25 | Maierova, L.P., 65 |
| Brubaker, Jr, C.H., C16 | Hayashi, N., 223 | Maire, J.C., 99 |
| Budding, H.A., C13, 121 | Hirao, T., C47 | Maki, T., 301 |
| Bulten, E.J., 121, C13 | Hoffmann, H.-J., 209 | Malisch, W., 185 |
| | Hori, A., 223 | Marks, T.J., C35 |
| Calas, R., 217 | Howe, D.V., 257 | Mehrotra, I., C1, C27 |
| Carturan, G., 421 | Huet, F., 139 | Meisters, A., 307, 315 |
| Cefalù, R., 155 | Hutton, J.A., 277 | Metzger, J., 261 |
| Chou, B.C.-K., C43 | | Miller, R.G., 127 |
| Clark, H.C., 159, C51 | Ibers, J.A., 243 | Mizuta, M., 223 |
| Collin, J., C19 | Ito, Y., C47 | Moore, W.S., 353 |
| Colomer, E., 367 | | Müller, J., 383 |
| Copenhafer, W.C., 353 | Jablonski, C.R., C51 | |
| Corriu, R., 367 | Jain, R.R., 359 | Noltes, J.G., C53 |
| | Jeffery, E.A., 307, 315 | Nonoyama, M., 271 |