

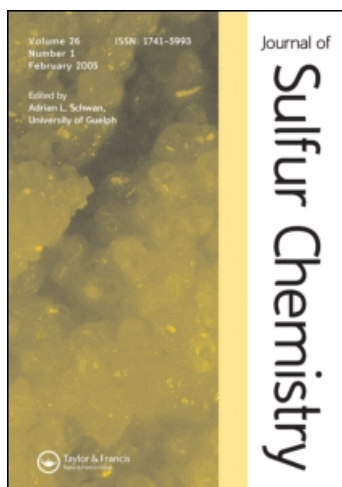
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Interesting Errors in Sulfur Chemistry, 7

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INTERESTING ERRORS IN SULFUR CHEMISTRY, 7

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THIOINDIGO

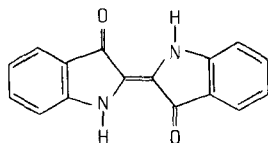
In the area of dyestuff chemistry¹ easy to use trivial or semitrivial names such as indigo **1**² are important and, in fact, indispensable.

In view of this it is deplorable that the improper semitrivial name thioindigo has been coined and is in general use for **2**.³ Since "thio" denotes the replacement of oxygen by sulfur and "thia" the replacement of carbon by sulfur "dideazadithiaindigo" would be a more proper semitrivial name for **2**.

The improper naming of **2** prevents the unknown **3** and the known **4**⁴⁻⁷ from receiving the logical semitrivial names "thioindigo" and "dithioindigo", respectively.

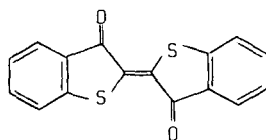
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- 1 Kirk-Othmer, *Encyclopedia of Chemical Technology*, 3. ed., vol. 8, 160.
- 2 Kirk-Othmer, *Encyclopedia of Chemical Technology*, 3. ed., vol. 8, 364.
- 3 Beil. 19², 192.
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- 5 A. A. Matnishyan, A. N. Zelenetskii, B. I. Liogow'kii, and A. A. Berlin, *Vysomol. Soedin., (Eng.) Ser. A* **13**(5), 1170-5 (1971).
- 6 L. Raffa, *Gazz. Chim. Ital.* **72**, 549-57 (1942).
- 7 According to *Chemical Abstracts* compound **4** is mentioned in Refs. 4 and 5. By reading the two articles we have discovered that this is not true.



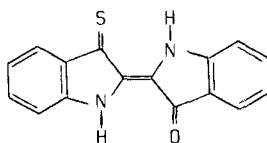
1

2-(1,3-Dihydro-3-oxo-2*H*-indol-2-ylidene)-
1,2-dihydro-3*H*-indol-3-one,
indigo [482-89-3]



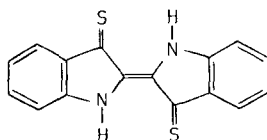
2

2-(3-Oxobenzo[*b*]thien-2(3*H*)-ylidene)-
benzo[*b*]thiophen-3(2*H*)-one,
thioindigo [522-75-8]



3

2-(1,3-dihydro-3-thioxo-2*H*-indol-2-ylidene)-
1,2-dihydro-3*H*-indole-3-one



4

[$\Delta^2, 2'$ -Biindoline]-3,3'-dithione
2-(1,3-dihydro-3-thioxo-2*H*-indol-2-ylidene)-
1,2-dihydro-3*H*-indole-3-thione [34063-44-0]