*строки 517-518 - наверное фразу "and naphthalene" лучше убрать, образование нафталина не упоминается в этих статьях*

Previously, the appearance of polymer products during the thermal decomposition of *ortho-*carboxybenzenediazonium chloride was also explained by the intermediate formation of didehydrobenzene.2h,2i

*в таблице 7 исправил формат написания формул исходных веществ*

**Table 7.** Predicted thermodynamic parameters of DS **1a‑c**, **2**, **3** decomposition reactions according to quantum chemical calculations at RB3LYP/aug-cc-pVDZ level of theory.

| Entry | Reaction | G298, kJ/mol | H298, kJ/mol | S\*298.15, kJ/mol |
| --- | --- | --- | --- | --- |
| 1 | 2-NO2C6H4N2+ TfO-→ 2-NO2C6H4OTf + N2 | -268.6 | -230.1 | 38.5 |
| 2 | 3-NO2C6H4N2+ TfO- → 3-NO2C6H4OTf + N2 | -282.4 | -242.8 | 39.6 |
| 3 | 4-NO2C6H4N2+ TfO- → 4-NO2C6H4OTf + N2 | -287.6 | -248.0 | 39.6 |
| 4 | 4-MeOC6H4N2+ TfO-→ 4-MeOC6H4OTf + N2 | -238.1 | -200.5 | 37.7 |
| 5 | 4-NO2C6H4N2+ TsO- → 4-NO2C6H4OTs + N2 | -328.4 | -283.9 | 44.6 |
| 6 | 4-NO2C6H4N2+ BF4-→ 4-NO2C6H4F + BF3 + N2 | -276.2 | -188.4 | 87.9 |
| 6a | 4-NO2C6H4N2+ BF4-→ 4-NO2C6H4N2F + BF3 | 76.2 | 124.6 | 48.5 |
| 6b | 4-NO2C6H4N2 F-→ 4-NO2C6H4F + N2 | -352.3 | -312.9 | 39.4 |

*в Таблице 8 сразу две опечатки: в первой строчке вместо TfO- напечатано Tf-, и в реакции разложения тозилата указан трифлат*

**Table 8.** Experimental and predicted enthalpies of decomposition of diazonium salts (RB3LYP/aug-cc-pVDZ).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Reaction | Predicted enthalpy | Experimental enthalpy (flow calorimetry) | | | | DSC/TGA |
| ΔH298, (ΔH353) kJ/mol | ΔH348, kJ/mol | ΔH353, kJ/mol | ΔH358, kJ/mol | ΔH, kJ/mol | |
| 2‑NO2C6H4N2+ TfO- → 2‑NO2C6H4OTf + N2 | -230 (-230.4) | -414 | -386 | -396 | -203.4 | |
| 3‑NO2C6H4N2+ TfO- → 3‑NO2‑C6H4OTf + N2 | -243 (-243.2) | -228 | -230 | -225 | -238.5 | |
| 4‑NO2C6H4N2+ TfO- → 4‑NO2‑C6H4OTf + N2 | -248 (-248.4) | -200 | -235 | -250 | -65.8 | |
| 4-MeOC6H4N2+ TfO- → 4‑MeOC6H4OTf + N2 | -201 (-200.8) | -183 | -183 | -106 | -64.5 | |
| 4-NO2C6H4N2+ TsO- → 4‑NO2C6H4OTs + N2 | -284 (-284.0) | -253 | -232 | -231 | -117.3 | |
| 4-NO2C6H4N2+ BF4- → 4‑NO2C6H4F + BF3 + N2 | -188 (-189.5) | -173 | -156 | -147 | -54.3 | |

*строки 631-633 - куда-то пропали ORCID хотя в рукописи они были. К сожалению у меня нет данных Елены Александровны.*

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*строки: 389, 390, 393, 394 - может быть в названиях диазониевых солей вместо* ***phenyldiazonium*** *использовать* ***benzenediazonium****(в статье сейчас оба варианта)?*

The half-life of 4-nitrobenzenediazonium triflate **1c** is significantly less than the half-life of 4-methoxybenzenediazonium triflate **1d**: the values found are 4 h and 16 h, respectively. At the same time, the heat flow observed during decomposition of 4-nitrobenzenediazonium triflate **1c** is much higher than that of 4-methoxybenzenediazonium triflate **1d** (Fig. 8): 119.5 mW/g for **1c** versus 5.37 mW/g for **1d (**Fig.8).