**Úloha č. 7**

1. **Poločas přeměny:**

**Tabulka č. 1:** Hodnoty pozadí

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tp [s]** | **tp [min]** | **Np0** | **Rp [imp/min]** | **δ(Rp) [imp/min]** |
| 20 | 0,33 | 23 |  |  |

**Tabulka č. 2:** Hodnoty pro měření vzorku po separaci jedním srážením

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **t [s]** | **Nv** | **∂v+p** | **Nv+p** | **ln Nv** |
| 55 |  |  | 1299 |  |
| 75 |  |  | 1195 |  |
| 95 |  |  | 1093 |  |
| 115 |  |  | 1032 |  |
| 135 |  |  | 960 |  |
| 155 |  |  | 840 |  |
| 175 |  |  | 758 |  |
| 195 |  |  | 748 |  |
| 215 |  |  | 716 |  |
| 235 |  |  | 646 |  |
| 255 |  |  | 600 |  |
| 275 |  |  | 574 |  |
| 295 |  |  | 548 |  |
| 315 |  |  | 489 |  |
| 335 |  |  | 445 |  |
| 355 |  |  | 412 |  |
| 375 |  |  | 365 |  |
| 395 |  |  | 364 |  |
| 415 |  |  | 353 |  |
| 435 |  |  | 357 |  |
| 455 |  |  | 322 |  |
| 475 |  |  | 259 |  |
| 495 |  |  | 284 |  |
| 515 |  |  | 272 |  |
| 535 |  |  | 238 |  |
| 555 |  |  | 245 |  |
| 575 |  |  | 227 |  |
| 595 |  |  | 211 |  |
| 615 |  |  | 230 |  |
| 635 |  |  | 203 |  |

**Tabulka č. 3:** Hodnoty po 32 minutách od skončení měření

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tp [s]** | **tp [min]** | **Np0** | **Rp [imp/min]** | **δ(Rp) [imp/min]** |
| 20 | 0,33 | 91 |  |  |

Dvojí srážení:

**Tabulka č. 4:** Hodnoty pro měření vzorku po separaci dvojím srážením

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **t [s]** | **Nv** | **∂v+p** | **Nv+p** | **ln Nv** |
| 291 |  |  | 66 |  |
| 311 |  |  | 56 |  |
| 331 |  |  | 65 |  |
| 351 |  |  | 67 |  |
| 371 |  |  | 56 |  |
| 391 |  |  | 49 |  |
| 411 |  |  | 53 |  |
| 431 |  |  | 60 |  |
| 451 |  |  | 61 |  |
| 471 |  |  | 47 |  |
| 491 |  |  | 65 |  |
| 511 |  |  | 62 |  |
| 531 |  |  | 51 |  |
| 551 |  |  | 50 |  |
| 571 |  |  | 48 |  |
| 591 |  |  | 42 |  |

**Tabulka č. 5:** Hodnoty po 20 minutách od skončení měření

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tp [s]** | **tp [min]** | **Np0** | **Rp [imp/min]** | **δ(Rp) [imp/min]** |
| 20 | 0,33 | 26 |  |  |

**Tabulka č. 6:** Čistota separace

|  |  |  |  |
| --- | --- | --- | --- |
|  | **N** | **w [%]** | **t [s]** |
| Nv0 | 1934 |  | 20 |
| Nv1 | 1299 |  | 55 |
| Nv2 | 66 |  | 291 |