$c\_{p}=(\frac{∂H}{∂T})\_{p}$ $c\_{V}=(\frac{∂U}{∂T})\_{V}$

$H=H\_{0}+c\_{p}(T-T\_{0})$ $U=U\_{0}+c\_{V}(T-T\_{0})$

$$c\_{p}-c\_{V}=3R=6кал/моль∙К$$

|  |  |  |  |
| --- | --- | --- | --- |
| t,K | Cp,Дж/кг·К | H | U |
| 403,15 | 146,538 |  |  |
| 423,15 | 146,538 |  |  |
| 473,15 | 146,538 |  |  |
| 523,15 | 146,538 |  |  |
| 573,15 | 146,538 |  |  |
| 623,15 | 146,538 |  |  |
| 673,15 | 146,538 |  |  |
| 723,15 | 146,538 |  |  |
| 773,15 | 146,538 |  |  |
| 823,15 | 146,538 |  |  |
| 873,15 | 146,538 |  |  |
| 923,15 | 146,538 |  |  |
| 973,15 | 146,538 |  |  |

*Необходимо рассчитать H и U.*