

Nachvollziehbare Berechnungen der H-Werte

Rechenweg: $tR_{column} = tR_{total} - tR_{extra}$, $\sigma_{column} = \sqrt{\sigma^2_{total} - \sigma^2_{extra}}$, $N = (tR_{column} / \sigma_{column})^2$, $HETP = 100 \text{ mm} / N$

Messung	tR_total (min)	σ^2_{total} (min²)	tR_extra (min)	σ^2_{extra} (min²)	tR_column (min)	σ_{column} (min)	N	HETP (mm)
1	0.601	0.003	0.198	0.002	0.403	0.031	163.812	0.610
2	0.626	0.005	0.211	0.003	0.415	0.053	62.317	1.605
3	0.676	0.005	0.222	0.003	0.454	0.048	87.978	1.137
4	0.701	0.005	0.254	0.004	0.447	0.032	194.102	0.515
5	0.736	0.005	0.277	0.003	0.459	0.048	90.658	1.103
6	0.786	0.006	0.286	0.003	0.500	0.054	85.331	1.172
7	0.851	0.008	0.311	0.004	0.540	0.060	82.067	1.219
8	0.901	0.008	0.328	0.005	0.572	0.051	128.028	0.781
9	0.965	0.009	0.354	0.006	0.611	0.059	105.923	0.944
10	1.063	0.009	0.386	0.007	0.677	0.043	250.141	0.400
11	1.154	0.011	0.406	0.007	0.747	0.060	157.709	0.634
12	1.293	0.013	0.464	0.009	0.829	0.063	172.569	0.579
13	1.445	0.017	0.517	0.011	0.928	0.078	140.946	0.709
14	1.643	0.021	0.589	0.013	1.053	0.087	145.710	0.686
15	1.957	0.023	0.684	0.016	1.274	0.080	251.063	0.398
16	2.363	0.027	0.826	0.022	1.537	0.068	503.406	0.199
17	2.933	0.040	1.021	0.030	1.912	0.100	364.075	0.275
18	3.936	0.062	1.360	0.047	2.577	0.124	428.720	0.233
19	5.877	0.113	2.021	0.094	3.856	0.138	779.095	0.128
20	11.887	0.426	4.026	0.264	7.861	0.403	380.855	0.263