

Table 1Evaporation time of the drop free fallen in the hot air flow ($v_2^0 = 0$ m/s, $v_1 = 1$ m/s)

Air temperature, K	Drop initial diameter, $m \cdot 10^3$							
	0.5		1		1.5		2	
	H ₂ O	H ₂ SO ₄	H ₂ O	H ₂ SO ₄	H ₂ O	H ₂ SO ₄	H ₂ O	H ₂ SO ₄
373	7.99	11.83	20.28	29.97	34.53	51.01	49.18	74.16
473	3.23	4.16	8.31	10.68	14.19	18.24	20.66	26.54
573	1.90	2.37	4.97	6.17	8.52	10.56	12.42	15.39
673	1.31	1.60	3.46	4.23	5.95	7.25	8.68	10.58
773	0.98	1.20	2.65	3.20	4.57	5.52	6.67	8.06

Table 2Distance passed by the drop during evaporation time ($v_2^0 = 0$ m/s, $v_1 = 1$ m/s)

Air temperature, K	Drop initial diameter, $m \cdot 10^3$							
	0.5		1		1.5		2	
	H ₂ O	H ₂ SO ₄	H ₂ O	H ₂ SO ₄	H ₂ O	H ₂ SO ₄	H ₂ O	H ₂ SO ₄
373	6.20	11.28	47.98	82.57	126.45	210.31	231.50	389.43
473	2.47	4.01	21.43	31.65	56.76	82.48	107.02	154.42
573	1.38	2.18	13.12	18.72	35.67	50.01	68.13	94.79
673	0.88	1.37	9.10	12.80	25.39	35.03	49.15	67.24
773	0.62	0.97	6.98	9.74	20.00	27.39	39.27	53.29

Table 3Temperature achieved by the drop during evaporation ($v_2^0 = 0$ m/s, $v_1 = 1$ m/s)

Air temperature, K	H ₂ O	H ₂ SO ₄
373	304.9	349.3
473	315.6	367.3
573	321.9	376.3
673	326.1	381.9
773	328.8	385.7