

EMEP – 42nd intercomparison of analytical methods - % deviation from expected value

Lab no	SO ₄ ²⁻				NH ₄ ⁺				NO ₃ ⁻				Precipitation				Mg ²⁺				Cl ⁻				Cs ²⁺				K ⁺				pH-units from expected				Cond			
	% deviation from expected	G1	G2	G3	G4	% deviation from expected	G1	G2	G3	G4	% deviation from expected	G1	G2	G3	G4	% deviation from expected	G1	G2	G3	G4	% deviation from expected	G1	G2	G3	G4	% deviation from expected	G1	G2	G3	G4	pH	G1	G2	G3	G4	% deviation from expected	G1	G2	G3	G4
3	1	0	-1	2	4	-2	2	0	0	-8	1	-13	-13	5	3	2	-1	-2	-3	-1	-3	4	7	27	12	0	1	-3	-1	0.2	0.1	0.1	0.0	2	2	1	1			
4	2	2	2	2	17	-4	-6	-5	-6	0	1	1	0	0	2	1	1	-6	-7	-4	-6	3	3	4	2	-4	-4	-2	-3	-0.9	-0.9	-1.1	-1.2	0.0	0.0	0.0	0.0			
5	-2	-2	-1	-1	4	5	2	3	-3	-3	-2	-3	-3	0	1	1	0	1	2	3	2	-2	0	0	-1	-2	-1	-2	8	9	6	7	0.0	0.0	0.1	0.0				
6	0	0	1	1	3	-1	-3	-4	0	1	1	1	-1	-2	-2	-3	-8	-10	-10	-11	3	2	2	2	-8	-10	-11	-12	12	2	0	1	0.2	0.0	0.1	0.0				
8	-5	-7	-6	-6	-8	-5	-5	-3	-4	-7	3	-1	-1	-3	-2	-3	-4	-10	-11	-9	-11	-7	-5	-5	-6	-11	-9	-11	-10	-7	-4	-4	0.0	-0.1	-0.1	-0.1				
10	2	3	6	7	28	-15	-12	-19	-1	-4	-5	-6	1	2	0	-2	-5	-7	-9	-11	-3	-4	-4	-4	-6	-21	-17	-22	1	4	1	1	-0.1	0.1	0.1	0.1				
12	-15	-18	-21	-19	-60	-43	-13	-24	-10	-8	-8	-11	-14	-11	-12	-12	-16	-17	-14	-14	-4	-3	-4	-4	-22	-21	-17	-12	-23	-12	-14	-11	-0.2	-0.3	-0.2	-0.3				
15	3	2	4	3	19	26	16	18	-2	-2	-2	-2	1	4	3	2	-8	-10	-11	-13	0	1	1	1	-14	-17	-17	-21	-7	-1	1	0	0.1	0.0	0.0	0.0				
16	0	-1	1	3	-6	-5	-6	-9	-2	-3	-3	-3	-6	-2	-2	-3	-3	-2	1	0	-4	-3	-2	-3	1	-1	2	4	6	6	2	1	0.0	0.0	0.0	-1				
19	-4	-3	-1	0	-1	3	1	-3	-3	-1	-4	-5	-4	-4	-4	-4	2	3	4	3	-6	-7	-6	-4	-5	0	-4	-4	-3	-1	-4	0.2	0.2	0.2	0.2					
20	1	2	0	0	-1	1	1	-1	-1	-1	-2	-10	-11	-10	-11	-3	-4	-2	-1	0	1	-7	-9	-7	1	2	1	1	0.1	0.0	0.0	0.0								
21	2	1	3	3	5	3	2	-2	-1	-1	-1	2	1	0	2	2	3	2	-1	-1	-1	-2	-19	-19	-27	-25	6	7	4	6	0.0	0.0	0.0	-1						
22	-9	-10	-11	-11	10	28	9	3	-1	-3	-4	-4	13	-4	-1	3	-13	-3	-1	-14	-10	-11	-12	-17	-1	2	18	-5	11	2	-6	0.0	-0.1	0.0	0.0					
23	-14	-15	-17	-15	-1	-11	-8	-9	-9	-9	-9	-9	-4	-5	-6	-6	-17	-19	-16	-20	-8	-8	-7	-8	-22	-3	-8	-6	-0.1	-0.1	-0.1	-0.1								
26	-1	-1	0	0	-1	0	2	0	-2	-2	-1	-1	0	-1	-2	-1	0	1	1	-1	-1	-1	-1	-2	0	1	0	6	4	1	0	0.4	0.0	-0.1	-0.4					
27	-1	-1	2	2	6	7	4	3	-1	1	2	2	-4	-4	-6	-6	1	2	6	-1	1	2	3	2	4	-5	4	3	2	-0.1	-0.1	-0.1	-0.1							
30	-2	-3	-2	-3	-4	1	-1	3	-6	-2	0	0	-3	-1	-1	-2	4	3	4	1	-5	-2	-3	10	5	7	3	-5	-2	0	-10	0.0	0.1	-0.1	-0.2					
31	-21	-19	-12	-14	1	0	-3	-2	-13	-12	-9	-10	-2	-1	-1	-2	-3	-5	-5	-6	-5	-5	-5	-6	-5	-5	-2	-2	-4	0.0	0.0	-0.1	0.0							
32	-2	-3	-4	-2	13	9	1	8	-5	-5	-5	-2	0	-3	-3	-4	4	22	36	29	-3	-3	-3	-3	-43	-15	-1	-9	-16	-8	2	1	0.0	0.0	0.0	0.0				
33	-18	-20	-22	-19	-8	-9	-9	-7	-8	-7	-9	-8	-1	1	1	0	6	16	11	-7	-5	-6	-6	-30	-5	-12	32	10	9	10	11	0.3	-0.1	-0.1	-0.1					
34	-17	-20	-19	-17	46	49	31	29	-12	-9	-8	-9	-19	-22	-23	-25	-43	-25	142	197	-27	-24	-22	-24	-31	-17	163	225	164	43	113	194	0.4	-0.3	-0.2	-0.2				
35	0	0	0	0	-4	-5	-4	-5	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.1	0.1	0.1	0.1						
36	-5	-6	-4	-4	2	6	-1	-4	-3	-4	-4	-2	-1	-1	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.0	-2	-1	-1						
38	-3	0	1	1	54	37	14	23	-5	-3	-3	-3	-12	-7	-3	-4	-32	6	14	10	-4	-1	-1	-2	22	52	49	32	-9	-4	-15	-14	0.0	-0.1	-0.1	-0.1				
39	0	-4	-1	2	1	-2	-3	-3	-36	-1	-5	-3	-3	-7	-10	-10	-11	-3	5	2	9	-3	-2	-2	-2	-4	-7	-9	-4	3	5	5	3	0.4	-0.4	-0.5	-0.6			
42	-51	-89	-89	-89	65	91	91	91	-14	-14	-14	-14	-19	-22	-23	-25	-43	-25	142	197	-27	-24	-22	-24	-31	-17	163	225	164	43	113	194	0.4	-0.3	-0.2	-0.2				
45	7	8	11	8	70	-64	-65	-63	12	2	8	9	11	7	-5	-10	-16	-13	-1	-2	0	3	0	2	2	1	-1	-16	-15	-4	-6	0	0	0.2	0.2	-0.1	0.2			
46																																								
47	-3	-6	-4	-3	31	27	13	18	3	-1	-3	-2	-2	-3	-4	-6	-2	-2	-1	-1	-5	-4	-4	-5	-11	-1	-7	3	3	0	0	-3	-3	0	0	0.1	0.1	0.1	0.1	
48	79	13	83	-5	15	8	7	6	8	11	8	5	5	2	1	1	2	1	0	0	1	1	1	1	-5	-6	-7	-8	-5	-4	-8	-1	0.2	0.2	0.2	0.2				
49	-1	1	3	4	10	12	8	7	0	1	1	1	1	2	2	1	-1	0	-2	1	-1	0	-1	-3	-2	-2	-3	-7	-4	-7	-5	0	0	0	0					
50	3	0	0	-1	15	19	16	16	-2	-2	-1	-9	-8	-8	-3	0	-1	-2	1	-1	0	-1	-3	-2	-2	-3	-7	-4	-7	-5	0	0	0	0						
54	-4	-4	-1	-1	0	8	10	5	-3	-2	-1	-1	-6	-5	-5	-5	-2	-2	-1	-1	-2	-2	-2	-2	-2	-17	-13	-12	-14	1	1	-4	0	0.3	0.3	0.2	0.2			
110	-15	-4	-1	-3	-14	-14	-12	-12	-5	-2	-3	-3	-3	-4	-4	-4	-5	2	2	4	3	-2	-3	-1	-2	-1	-2	-5	-6	-4	-4	3	1	0	1	0.0	0.1	0.1	0.0	
112	2	1	2	2	0	1	2	1	-1	-2	-3	-3	-4	2	3	2	2	1	2	1	2	1	0	-1	0	0	-5	-7	-6	8	8	5	8	-0.1	0.1	0.1	0.2			
114	-6	-7	-6	-7	4	4	4	4	2	-3	-3	-3	-3	-9	-8	-7	-7	19	-7	-4	12	31	-1	-1	-1	-2	33	50	57	40	-15	-12	-14	-16	0.1	0.0	0.0	0.0		
115	-4	-5	-3	-3	7	7	5	5	-7	-6	-6	-6	-6	5	7	6	4	4	-1	-1	-2	3	-3	-3	-5	-2	2	2	4	5	14	1	0	0	0	0	0	0		
120	-11	-9	-15	-4	42	54	28	17	-5	-2	-8	-6	8	8	6	8	9	5	2	18	-5	-3	-5	-6	12	7	3	18	-6	-2	-8	1	0.0	-0.1	0.1	-0.3	21	11	15	17
121	-15	-15	-20	-20	-3	0	-3	-1	-4	-1	-1	-2	-14	-13	-14	-14	-16	-15	-18	-9	-6	-7	-8	-30	-34	-36	-40	-9	-8	-10	-9	0.0	0.0	0.0	0.0	-0.9	-10	-9	-10	
125	-4	-5	-4	-4	1	-2	0	-4	-3	-2	-1	-1	-3	-4	-3	-2	-3	-1	-4	0	-2	-3	-2	-1	-2	-2	-1	-2	-3	-4	0	-1	0	0	0.1	0.1	0.1	0.1		
145	-5	-5	-3	1	-5	-4	-4	-4	-5	-7	-6	-3	-4	-5	-1	-5	-9	-9	-5	-4	-5	-5	-5	-13	-16	-11	-11	-2	-2	-2	-3	-3	-2	-2	-3	-3	-2	-3	-2	-3
153	-6	-6	-5	-5	-6	-12	-15	-15	-12	-8	-6</																													