

Table 1: Ehrlinghaus number  $N$ , Dispersion and Birefringence for a set of minerals. Taken from [1]. The numbers in the column named 'reference' also refer to the ones in this article. Some misprints have been corrected.

number	substance	reference	$N$	$\Delta n_F - \Delta n_C$	$\Delta n_D$
1	Zirkon	1	172	0.000340	0.058730
2	Anhydrit ( $\gamma - \beta$ ) $\parallel$ (001)	2	111	0.000340	0.037800
3	Phenakit	3	93	0.000170	0.015830
4	Sanidin, Eifel ( $\beta - \alpha$ )	4	80	0.000059	0.004597
5	Diopsid, Nordmarken ( $\gamma - \alpha$ )	5	57	0.000500	0.028700
6	Hambergit ( $\gamma - \alpha$ ) $\parallel$ (010)		47	0.001600	0.074900
7	Gips $\perp$ sp. Bis. ( $\beta - \alpha$ )		45	0.000047	0.002100
8	Korund, farblos	6	41	0.000200	0.008200
9	Hambergit ( $\gamma - \beta$ ) $\parallel$ (100)		40	0.001000	0.040300
10	Hambergit ( $\beta - \alpha$ ) $\parallel$ (001)		37	0.000930	0.034380
11	Oligoklas, Backersville ( $\gamma - \beta$ )	7	36	0.000110	0.003930
12	Eis		34.2	0.000041	0.001402
13	Quarz		33.7	0.000271	0.009110
14	Cordierit ( $\gamma - \alpha$ )	8	33.7	0.000220	0.007420
15	Beryll	9	33.3	0.000150	0.005000
16	Baryt ( $\gamma - \beta$ )	10	33.1	0.000330	0.010910
17	Gips ( $\gamma - \alpha$ ) $\parallel$ (010)		32.6	0.000278	0.009072
18	Oligoklas, Backersville ( $\beta - \alpha$ )	7	31.9	0.000130	0.004150
19	Gips $\perp$ st. Bis. ( $\gamma - \beta$ )		30.5	0.000230	0.007020
20	Baryt ( $\gamma - \alpha$ )	10	29.4	0.000410	0.012040
21	Sanidin, Eifel ( $\gamma - \alpha$ )	4	29.1	0.000159	0.004622
22	Bittersalz ( $\beta - \alpha$ ) $\parallel$ (100)	11	28.4	0.000810	0.022990
23	BeSO <sub>4</sub> ·4H <sub>2</sub> O	12	26.6	0.001350	0.035900
24	Bittersalz ( $\gamma - \alpha$ ) $\parallel$ (001)	11	25.9	0.001100	0.028460
25	Aragonit ( $\beta - \alpha$ ) $\parallel$ (010)	13	24.8	0.006100	0.151220
26	Aragonit ( $\gamma - \alpha$ ) $\parallel$ (100)	13	24	0.006490	0.155600
27	Kalkspat	14	23.6	0.007300	0.171950
28	Oligoklas, Backersville ( $\gamma - \alpha$ )	7	23.5	0.000340	0.007980
29	Cordierit ( $\beta - \alpha$ )	8	22.4	0.000240	0.005360
30	Apatit		21.5	0.000207	0.004440
31	Bittersalz $\parallel$ (010)	11	18.9	0.000290	0.005470
32	Diopsid, Nordmarken ( $\gamma - \beta$ )	5	17.1	0.001200	0.020500
33	Staurolith ( $\beta - \alpha$ )	15	14.8	0.000400	0.005900
34	NaNO <sub>3</sub>	16	13.4	0.018800	0.251300
35	K <sub>2</sub> SO <sub>4</sub> ( $\beta - \alpha$ ) $\parallel$ (001)	17	13	0.000100	0.001300
36	Diopas		12.6	0.004120	0.051870

37	Aragonit ( $\gamma - \beta$ )    (001)	13	12.1	0.000370	0.004460
38	Diopsid, Nordmarken ( $\beta - \alpha$ )	5	11.6	0.000700	0.008100
39	K <sub>2</sub> SO <sub>4</sub> ( $\gamma - \alpha$ )    (100)	17	10.8	0.000400	0.004300
40	Kaliumdithionat	18	10.7	0.005640	0.060400
41	Gehlenit	19	9.9	0.000450	0.004450
42	Staurolith ( $\gamma - \alpha$ )	15	9.2	0.001300	0.012000
43	Baryt ( $\beta - \alpha$ )	10	9.1	0.000130	0.001180
44	Amyrolin ( $\beta - \alpha$ )	20	8.7	0.032600	0.283520
45	K <sub>2</sub> SO <sub>4</sub> ( $\gamma - \beta$ )    (010)	17	7.5	0.000400	0.003000
46	Rutil	21	7.4	0.038700	0.286400
47	Melilith, Capo di Bove	22	7.2	0.000630	0.004540
48	Schwefel ( $\beta - \alpha$ )    (001)		7	0.011560	0.080900
49	Staurolith ( $\gamma - \beta$ )	15	6.8	0.000900	0.006100
50	Carborundum	23	6.3	0.007300	0.045800
51	Amyrolin ( $\gamma - \alpha$ )	20	5.6	0.085200	0.481320
52	K <sub>2</sub> CuCl <sub>4</sub> ·2H <sub>2</sub> O		4.9	0.007160	0.035000
53	Calciumdithionat	18	4.6	0.002200	0.010200
54	Amyrolin ( $\gamma - \beta$ )	20	3.8	0.052600	0.197810
55	Melilith, Vesuv	22	3.4	0.000570	0.001910
56	Anatas		3	0.024300	0.073270
57	Wulfenit		2.5	0.049600	0.122700
58	Strontiumdithionat	18	1.8	0.001900	0.003410
59	KNO <sub>3</sub> ( $\gamma - \beta$ )    (001)		1	0.000800	0.000800
60	Idokras, brauner, von Canzoccoli		0.68	0.000750	0.000510
61	Apophyllit, Guanajuato		0.63	0.001080	0.000680
62	Sanidin, Eifel ( $\gamma - \beta$ )	4	0.33	0.000159	0.000053
63	Apophyllit, Guanajuato		-0.065	-0.001240	0.000080
64	Idokras, Poljakowsk		-0.066	0.001060	-0.000070
65	Idokras, grüner, Ala		-1	0.001130	-0.001080
66	Apophyllit, Golden		-1.5	-0.000735	0.001102
67	Apophyllit, Andreasberg		-1.9	-0.000830	0.001570
68	KLiSO <sub>4</sub>	24	-2	-0.000280	0.000570
69	Idokras, Ala		-2.4	-0.000870	0.002100
70	Apophyllit, Hestoë		-2.8	-0.000850	0.002380
71	Idokras, Ala		-4.1	-0.000750	0.003050
72	Apophyllit, Guanajuato, b. 250 °C		-5.6	-0.000750	0.004210
73	Brucit		-7.1	-0.002670	0.019000
74	Phosgenit		-10.6	-0.002530	0.026900
75	Borax, $\perp$ sp. Bis.	25	-15	-0.000200	0.003000
76	Zitronensäure, $\perp$ sp. Bis.		-19.7	-0.000230	0.004540
77	Vesuvian, Sandford	27	-20.8	-0.000230	0.004780
78	Zinnstein	28	-27.2	-0.003540	0.096140

79	Bleidithionat	18	-30.7	-0.000630	0.019300
80	Zitronensäure	26	-93	-0.000170	0.015730
81	Bariumformiat, $\perp$ st. Bis.	29	-100	-0.000390	0.039140

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## References

- [1] Ehringhaus, A., *Über Dispersion der Doppelbrechung bei Kristallen*, Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, **43**,557–618, 1920.