

Dielectric constant List

No	Material	value
1	Acetal (25°C)	3.8
2	Acetaldehyde	15
3	Acetamide (77°C)	59.2
4	Acetic acid	6.2
5	Acetoacetic acid ethyl ester	15
6	Acetone	21.5
7	Acetophenone	18
8	Acetyl bromide	16.2
9	Acetyl chloride	15.9
10	Acetylacetone	23
11	Acetylene dibromide	7.2
12	Acetylene tetrabromide	5.6
13	Aconite acid ester	6.3
14	Activated carbon	12
15	Adipic Acid	1.8
16	Aerosile	1
17	Aether	4
18	Allyl alcohol	20.6
19	Allyl chloride	8.2
20	Allyl iodide	6.1
21	Alum (60°C)	4.2
22	Aluminium bromide (100°C)	3.4
23	Aluminium foil	10.8
24	Aluminium hydroxide	2.5
25	Aluminium splinters	7.3
26	Aluminium sulfate	2.6
27	Ammonia	15
28	Ammonia salt	4.3
29	Ammonia solution (25%)	31.6
30	Amyl amine	4.5
31	Aniline	7
32	Animal feed grist	2.4
33	Anisealdehyde	22.3
34	Anisole	4.5
35	Anthracite/hard coal	3.2
36	Antimony hydride	1.8
37	Argon	1.5
38	Arsine	2.1

39	Arsole	2.3
40	Asbestos	10
41	Ascorbic acid (vitamin C)	2.1
42	Azelaic acid diethylester	5
43	Azoxybenzene	5.2
44	Basalt	2.5
45	Bauxite	2.5
46	Beer brew	25
47	Beets cuttings	7.3
48	Beets seeds	3.5
49	Bentonite	8.1
50	Benzal chloride	6.9
51	Benzaldehyd	17.6
52	Benzene	2.3
53	Benzene, heavy	3.2
54	Benzil (80°C)	10
55	Benzine	2
56	Benzyl alcohol	13.5
57	Benzyl chloride	7
58	Benzyl amine	4.6
59	Bitumen	2.8
60	Black liquor	32
61	Bone fat	2.7
62	Bonemeal	1.7
63	Bore oil emulsion	25
64	Bornylacetat	4.6
65	Bromine	3.1
66	Butanoic acid	3
67	Cacao beans	1.8
68	Calcium fluoride	2.5
69	Camphene	2.3
70	Caproic acid (71°C)	2.6
71	Caprylic acid	2.5
72	Carbazole	1.3
73	Carbon black	18.8
74	Carbon disulphide	2.6
75	Carbon tetrachloride	2.3
76	Carbonyl cyanid	10.7
77	Caustic potash	3.3

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78	Cellit	1.6
79	Cellulose	1.2
80	Cement	2.2
81	Cement asbestos	3.2
82	Ceramic compound	17
83	Cetyl alcohol (60°C)	3.6
84	Chaff	1.5
85	Chalk	2.1
86	Chamotte	1.8
87	Charcoal	1.3
88	Chloorhydrin	31
89	Chlor benzene	5.7
90	Chlor, fluid	2.1
91	Chloral	6.7
92	Chlorinated lime	2.3
93	Chloroacetic acid	33.4
94	Chloroform (trichlormethane)	4.8
95	Chocolate powder	2
96	Clay	2.3
97	Coal dust	2.5
98	Coal, 15 % moisture	4
99	Coconut oil (refined)	2.9
100	Coffee beans	1.5
101	Coke	3
102	Cola essence	17.3
103	Concentrated feed	3.2
104	Copper ore	5.6
105	Cork powder	1.7
106	Corn	3.6
107	Corn grist	2.1
108	Corn starch sirup	18.4
109	Cotton fibre flour	3.2
110	Cream (skin)	19
111	Cresol	11
112	Cresol resin	18.3
113	Crystal sugar	2
114	Cullet	2
115	Cuminaldehyde	10.7
116	Cyanogen	2.5

117	Decalin	2.1
118	Degalan	3.1
119	Desmodur	10
120	Diacetone alcohol	18.2
121	Diamylether	3
122	Diatomaceous earth	1.4
123	Dibenzofuran (100°C)	3
124	Dibenzyl (60°C)	2.5
125	Diesel Fuel	2.1
126	Diethyl carbonate	2.8
127	Diethylamine	3.8
128	Dimethylether (methyl ether)	5
129	Diofan	32
130	Dioxane	2
131	Diphenyl (75°C)	2.5
132	Dry yeast	2
133	Emulphor	4
134	Epichlorhydrin	23
135	Ethanol (ethyl alkohol)	16.2
136	Ethayl acetate	6
137	Ethyl benzene	2.4
138	Ethyl benzoate	6
139	Ethyl mercaptan	6.9
140	Ethylamine	6.9
141	Ethylene chlorhydrin	25
142	Ethylene chloride	10.6
143	Ethylenediamine	15
144	Etylene oxide	13.9
145	Fat coal	3.4
146	Fatty acid	1.7
147	Fenchone	12.8
148	Ferrite pellets	21
149	Ferrosilicon	10
150	Ferrozell	18.3
151	Fertiliser	4.3
152	Fiber glass powder	1.1
153	Fish oil	2.6
154	Flax pellets	1.4
155	Flour	2.5

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156	Fluorbenzene	6.4
157	Fluorine	1.5
158	Fly ash	3.3
159	Foam flakes	1.1
160	Formamide	109
161	Formic acid	57.9
162	Furan	3
163	Furfurol	41.7
164	Gas	2
165	Germanium tetrachloride	2.4
166	Glass granulate	4
167	Glucose (50%)	30
168	Glue	2
169	Glycerol	13.2
170	Glycerol water	37
171	Glycol	37
172	Glysantin	25
173	Grain grist	3
174	Grain of mustard seed	3.6
175	Grain of soy	2.9
176	Granuform	4
177	Gravel	2.6
178	Green vitriol	32.4
179	Guaiacol	11
180	Guano	2.5
181	Gypsum	1.8
182	Hazels	2
183	Heating oil	2.1
184	Heavy fuel oil	2.2
185	Helium	1.1
186	Heptanal	9.1
187	Heptane	1.9
188	Heptanoic acid	2.6
189	Heptene	2.1
190	Hexachlorobutadiene	2.6
191	Hexane	1.9
192	Hexanol	12.5
193	Hexene	2.1
194	Hibiscus	2.8

195	Honey	24
196	Hot glue	2.3
197	Hydrazine	58
198	Hydrochloric acid	5
199	Hydrogen	1.2
200	Hydrogen cyanide	158
201	Hydrogen Fluoride	83.6
202	Hydrogen iodide	2.9
203	Hydrogen peroxide	84.2
204	Hydrogen sulfide	6
205	Ice cream	16.5
206	Imidazole, pure	23
207	Iodine	11.1
208	Iodobenzene	4.6
209	Iron(III)oxide red	1.9
210	Isoamyl acetate	4.8
211	Isoamyl alcohol	15.6
212	Isoamyl bromide	6
213	Isoamyl chloride	6.1
214	Isoamyl ether	2.8
215	Isoamyl iodide	5.6
216	Isobutanoic acid	2.6
217	Isobutyl alcohol	18.1
218	Isobutyl amine	4.4
219	Isobutyl benzene	2.3
220	Isobutyl bromide	7.2
221	Isobutyl chloride	6.5
222	Isobutyl cyanide	18
223	Isobutyl iodide	6.5
224	Isobutyl nitrate	11.7
225	Isobutyl silane	2.5
226	Isocyanate	6.1
227	Isoprene	2.1
228	Isopropanol	18
229	Isoquinoline	10.7
230	Isosafrol	3.3
231	Ketchup	24
232	Lanolin	4.2
233	Lard (80°C)	2.1

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234	Latex	24
235	Laughing gas	1.5
236	Lauric acid ethyl ester	3.4
237	Lime	2
238	Linoleic acid	2.7
239	Malic acid diethylester	10
240	Malt	2.7
241	Mandelic acid nitril	18
242	Marble stones small (2-3 mm)	2.5
243	Carcass meal	1.9
244	Meat and bone meal	2.2
245	Menthol	4
246	Mercury diethyl	2.1
247	Mesityl oxide	15
248	Metal powder	6
249	Methanol (methyl alkohol)	33
250	Methyl acetate	8
251	Methyl cellulose	3
252	Methyl iodide	7.1
253	Methyl nitrate	23.5
254	Methylene bromide	7
255	Methylene chloride	9
256	Metylene iodide	5.3
257	Mice feed	2.3
258	Molasses	31.3
259	Mono chlormethane	9.8
260	Morpholine	7.3
261	Mustard	24
262	Naphtalene	2.5
263	Naphthenic acid	2.6
264	Nitric acid (98%)	19
265	Nitro phoska	5.4
266	Nitro varnish	5.2
267	Nitrobenzene	35
268	Nitroethane	29
269	Nitroglycerin	19.3
270	Nitroglycol	28.3
271	Nitromethane	39
272	Nitrosyl bromide	15.2

273	Nitrosyl chloride	19
274	Oat	4.9
275	Octane	2
276	Octene	2.1
277	Octyl bromide	5
278	Oil	2
279	Oleic acid	2.5
280	Oxalo ethyl acetate	6
281	Oxygen	1.5
282	Palm nut/kernel/seed	2.8
283	Palm seed oil	1.8
284	Palm tree nut	2.2
285	Palmitic acid	2.3
286	Paper scraps	1.2
287	Paraffin	1.6
288	Paraldehyde	15.1
289	Pasta	1.9
290	Peanuts, dried	3.1
291	Peanut expeller	2.4
292	Pelargon	2.8
293	Penta borane	21
294	Penta chlortoluene	4.8
295	Penta ethyl chloride	3.8
296	Pentanal	11.8
297	Pentane	1.8
298	Pentanol	14.8
299	Pentene	2
300	Perchlorate	3.6
301	Perlite	1.7
302	PET powder	1.5
303	Phenetole	4.2
304	Phenol	8
305	Phenol resin	7.4
306	Phosgene	4.3
307	Phosphate	4
308	Phosphorus salt	4
309	Phosphorus, liquid	3.9
310	Pinane	2.1
311	Piperidine	5.8

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312	Plastic pellets	1.2
313	Polyamide pellets	1.7
314	Polyethylene	1.2
315	Polypropylene	1.6
316	Polyrol	2.8
317	Polyvinyl acetals	2.8
318	Popcorn	1.1
319	Potash salt	2
320	Potato starch	1.7
321	Pril	1.2
322	Printing ink	4.6
323	Propanoic acid	3.2
324	Propanol (propyl alcohol)	2.2
325	Propionaldehyde	14.4
326	Propylamine	3
327	Propylene chloride	9
328	Propylene, liquid	1.9
329	Propylether	3.3
330	PVC powder, pure	1.3
331	Pyridine	13.2
332	Pyrroles	8
333	Quartz stone meal	2.7
334	Quinoline	8.8
335	Rapeseed	3.3
336	Rapeseed grist	2.1
337	Resin	1.5
338	Rice	3
339	Rock salt (0-25 mm)	4.3
340	Rye	6
341	Rye bran	2.2
342	Saccharose solution	20
343	Salt water	32
344	Sawdust	1.3
345	Silica sand	2
346	Silicic acid	2
347	Silicone oil	2.7
348	Silicone rubber	2.9
349	Skim milk powder	2.3
350	Soap flakes	9.2

351	Soap pellets	3.5
352	Soda	3
353	Sodium chloride	23
354	Sodium methylete	1.5
355	Sodium perborate	2.2
356	Sodium peroxide	2.7
357	Sodium silicate	16
358	Sodium sulfate	2.7
359	Soft soap	32
360	Solvent	18
361	Soy flour	4.5
362	Splints	1.1
363	Stearic acid	2.3
364	Styrene	2.4
365	Sugar	1.8
366	Sulfur trioxide	3.1
367	Sulfuric acide	21.9
368	Sulfuric acid (17%)	31
369	Sulfuric acid (97%)	8.6
370	Sulphur	3.5
371	Sulphur dioxide	14
372	Sunflower seeds	2
373	Talcum	1.5
374	Tankage	1.9
375	Tar	4
376	Tartaric acid	35.9
377	Tea powder	2
378	Terephthalic acid	1.5
379	Terpinene	2.7
380	Terpinolene	2.3
381	Tetrachlorethylene	2.5
382	Thomaskali dust	3.4
383	Thujone (0°C)	10.8
384	Tinder	12
385	Titan tetrachloride	2.8
386	Tobacco dust	1.8
387	Toluene	2.4
388	Tooth paste	18.3
389	Transformer oil	2.1

Dielectric constant List

390	Trichloroethylene	3.2
391	Triethylaluminium	2.9
392	Triptan	1.9
393	Ultrasil	1.4
394	Undecan	2
395	Urea	2.9
396	Valeric acid	2.7
397	Vinegar	24
398	Viscose	34.5
399	Water	80.3
400	Water (360°C)	10
401	Water, demineralisiert	29.3
402	Water, heavy	78.3
403	Water-in-oil-emulsion	24.2
404	Wax	1.8
405	Wheat	4
406	Wheat starch	2.5
407	White spirit	2
408	Wine	25
409	Wood chips	2.3
410	Wood swarf	1.5
411	Xylene	2.3
412	Xylitol	40
413	Zinc oxide	1.5
414	Zinc powder	4.4