



The Right Connection®

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
(Ethylenedioxy)diethanol-2,2'			68	23.69
ABS Resin				2.4
ABS Resin, lump				2.4-4.1
ABS Resin, pellet		Solid		1.5-2.5
Acetic Acid (36degrees F)		Solid	4.1	
Acenaphthene	C10H6(CH2)2	Solid	70	3
Acetal	MeCH(OEt)2	Liquid	70	3.6
Acetal Bromide				16.5
Acetal Doxime			68	3.4
Acetaldehyde	C2H4O	Liquid	50	21.8
Acetaldehyde	C2H4O	Liquid	69.8	21.1
Acetaldoxime	C2H5ON	Liquid	70	3.4
Acetaldoxime	C2H5ON	Liquid	73.4	3
Acetamide	C3H5NO		180	59
Acetamide	C3H5NO	Liquid	68	41
Acetamide	C3H5NO	Solid	71.6	4
Acetanilide	PhNH-CO-Me	Liquid	71	2.9
Acetanilide	PhNH-CO-Me	Solid	71.6	2.9
Acetic Acid	C2H4O2	Liquid	68	6.15
Acetic Acid	C2H4O2	Solid	32.5	4.1
Acetic Acid	C2H4O2	Liquid	158	6.62
Acetic Acid, Anhydrous				22
Acetic Anhydride	H4H6O3		66	21
Acetic Anhydride	H4H6O3	Liquid	70	22
Acetoanilide		Granules		2.8
Acetone	CO-Me2	Liquid	80	20.7
Acetone	CO-Me2	Liquid	130	17.7
Acetone	CO-Me2	Gas	212	1.015
Acetone	CO-Me2	Liquid	-112	31
Acetone	CO-Me2		32	1.0159
Acetonitrile	CH3-CN	Liquid	70	37.5
Acetonitrile	CH3-CN	Liquid	179.6	26.6
Acetophenone	C8H8	Liquid	77	17.39
Acetophenone	C8H8	Liquid	394	8.64
Acetoxime	Me2C:NOH	Liquid	75	23.9
Acetoxime	Me2C:NOH	Liquid	24	3
Acetyl Acetone	C5H2O2	Liquid	68	25.7
Acetyl Acetone	C5H2O2		68	23.1
Acetyl Bromide	Me-COBr	Liquid	68	16.5
Acetyl Chloride	C2H3ClO	Liquid	35.6	16.9
Acetyl Chloride	C2H3ClO	Liquid	71.6	15.8
Acetyl Acetone			68	25
Acetylene	C2H2	Gas	32	1.001
Acetylmethyl Hexyl Ketone		Liquid	66	27.9
Acrylic Resin				2.7-6
Acrylonitrile	CH2:CH-CN		68	33
Acetal				21.0-3.6
Acetal			70	3.6
Air				1
Air (dry)			68	1.000536
Air (liquid)		Liquid	68	1.5
Alcohol		Liquid		16-31
Alkyd Resin				3.5-5.0

Dielectric Constants

The Right Connection®

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Allyl Alcohol	CH ₂ :CH:CH ₂ OH		58	22
Allyl Alcohol	CH ₂ :CH:CH ₂ OH	Liquid	70	21
Allyl Bromide	CH ₂ :CH-CH ₂ Br	Liquid	66	7
Allyl Chloride	CH ₂ :CH-CH ₂ Cl	Liquid	68	8.2
Allyl Iodide	CH ₂ :CH-CH ₂ I	Liquid	66	6.1
Allyl Isothiocyanate	C ₄ H ₅ NS	Liquid	64.4	17.2
Allyl Resin (Cast)				3.6-4.5
Alumina	Al ₂ O ₃			1.8-2.2
Alumina	Al ₂ O ₃			9.3-11.5
Alumina	Al ₂ O ₃			4.5-8.1
Alumina China				3.1-3.9
Alumina Porcelain				8 to 11
Aluminum	Al	Powder		1.6-1.8
Aluminum Bromide	AlBr ₃	Liquid	212	3.38
Aluminum Bromide	AlBr ₃		212	3.4
Aluminum Carbonate	Al ₂ (CO ₃) ₃			5.6
Aluminum Chlorate				5.1
Aluminum Ether				3.1
Aluminum Fluoride	AlF ₃	Solid		2.2
Aluminum Formate				5.7
Aluminum Hydroxide	Al(OH) ₃			2.2
Aluminum Oleate	Al(C ₁₈ H ₃₃ O ₂) ₃	Liquid	68	2.4
Aluminum Oleate	Al(C ₁₈ H ₃₃ O ₂) ₃	Solid	71.6	2.4
Aluminum Phosphate	AlPO ₄	Solid		6
Aluminum Powder	Al	Powder		1.6-1.8
Amber	C ₁₀ H ₁₆ O (?)	Liquid		2.8-2.9
American Whitewood	10% Water	Solid		3
Aminoalkyd Resin				3.9-4.2
Aminoethanol-2			77	37.72
Ammonia	NH ₃	Liquid	30	22.4
Ammonia	NH ₃		-30	22
Ammonia	NH ₃		40	18.9
Ammonia	NH ₃	Liquid	-104	25
Ammonia	NH ₃	Liquid	75	16.9
Ammonia	NH ₃	Gas?	32	0.0072
Ammonium Bromide	NH ₄ BF ₄	Solid	71.6	7.1
Ammonium Chloride	NH ₄ Cl	Soild	71.6	7
Ammonium Trichloride		Soild		5.3
Amyl Acetate	MeCOOC ₅ H ₁₁	Liquid	68	5
Amyl Alcohol	CH ₃ (CH ₂) ₄ OH	Liquid	68	15.8
Amyl Alcohol	CH ₃ (CH ₂) ₄ OH	Liquid	140	11.2
Amyl Alcohol	CH ₃ (CH ₂) ₄ OH	Liquid	-181	35.5
Amyl Benzoate	C ₆ H ₅ COOC ₅ H ₁₁	Liquid	68	5.1
Amyl Bromide	C ₅ H ₁₁ Br	Liquid	50	6.3
Amyl Chloride	C ₅ H ₁₁ Cl	Liquid	52	6.6
Amyl Ether	(C ₅ H ₁₁) ₂ O	Liquid	60	3.1
Amyl Formate	HCOOC ₅ H ₁₁	Liquid	66	5.7
Amyl Iodide	C ₅ H ₁₁ I	Liquid	62	6.9
Amyl Nitrate	C ₅ H ₁₁ NO ₃	Liquid	62	9.1
Amyl Thiocyanate	C ₅ H ₁₁ CNS	Liquid	68	17.4
Amylamine	C ₅ H ₁₁ NH ₂	Liquid	72	4.6
Amylene	MeCH ₂ CH ₂ CH:CH ₂	Liquid	70	2
Amylene Bromide	C ₅ H ₉ Br	Liquid	58	5.6

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Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Amylenetetrararboxylate			66	4.4
Amylmercaptan	C5H11SH	Liquid	68	4.7
Aniline	C6H7N	Liquid	32	7.8
Aniline	C6H7N	Liquid	68	7.3
Aniline	C6H7N	Liquid	212	5.5
Aniline	C6H7N	Liquid	158	5.93
Aniline Formaldehyde Resin				3.5-3.6
Aniline Resin				3.4-3.8
Aniline Resin Paper				5
Anisaldehyde	MeO-C6H4-CHO	Liquid	68	15.8
Anisaldoxime	MeO-C6H4-CH:NOH	Liquid	145	9.2
Anisole	C6H5-OMe	Liquid	68	4.3
Antimony Pentachloride	SbCl5	Liquid	68	3.2
Antimony Tribromide	SbBr3	Liquid	212	20.9
Antimony Trichloride	SbCl3	Liquid	166	33
Antimony Trichloride	SbCl3	Solid	71.6	5.34
Antimony Tricodide		Liquid	347	13.9
Apatite	3Ca3(PO4)2CaF2			7.4
Apatite (para) Optic Axis	3Ca3(PO4)2CaF2	Solid	71.6	7.41
Apatite (perp) Optic Axis	3Ca3(PO4)2CaF2	Solid	71.6	9.5
Argon	A	Liquid	-311	1.53
Argon	A		68	1.000513
Arsenic Tribromide	AsBr3	Liquid	98	9
Arsenic Trichloride	AsCl3	Liquid	70	12.4
Arsenic Trichloride	AsCl3		150	7
Arsenic Triiodide		Liquid	302	7
Arsine	AsH3	Liquid	-58	2.7
Arsine	AsH3	Liquid	-148	2.5
Asbestos		Solid		4.8
Asbestos		Solid		3-3.5
Asbestos Board		Solid		3
Ash		Powder	1.7	2
Asphalt		Liquid	75	2.65
Asphalt, Liquid		Liquid		2.5-3.2
Aviation Spirit (100 Octane)		Liquid	77	3
Azoxyanisole	(MeO-C6H4N)2O	Liquid	122	2.3
Azoxybenzene	Ph-NON-Ph	Liquid	104	5.1
Azoxyphenitole			30	6.8
Bakelite		Solid		4.5-5.5
Bakelite				3.5-5.0
Ballast				5.4-5.6
Ballmill Feed (Cement)				4.5
Balm, Refuse				3.1
Balsa Wood		Solid		1.21
Barium Chloride	BaCl2	Solid		9.4
Barium Chloride (2H2O)	BaCl2	Solid	71.6	9.4
Barium Chloride (anhyd)	BaCl2	Solid	71.6	11.4
Barium Nitrate	Ba(NO3)2	Soild	71.6	5.9
Barium Sulfate	BaSO4	Soild	59	11.4
Barium Titanate	BaTiO3	Powder		1200
Barley Flower				3.0-4.0
Barley Powder		Powder		3.4-4.0
Beech		Solid		9.4

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Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Beeswax				2.7-3.0
Benzal Chloride	PhClCH ₂	Liquid	68	6.9
Benzaldehyde	C ₇ H ₆ O	Liquid	68	17.8
Benzaldehyde Oxime	PhCH:NOH		68	3.8
Benzaldoxime	PhCH:NOH	Liquid	68	3.8
Benzene	C ₄ H ₆ /C ₆ H ₆	Liquid	68	2.284
Benzene	C ₄ H ₆ /C ₆ H ₆	Liquid	77	2.274
Benzene	C ₄ H ₆ /C ₆ H ₆		700	1.0028
Benzene	C ₄ H ₆ /C ₆ H ₆		275	2.1
Benzenethiol			77	4.38
Benzil	PhCO-COPh	Liquid	202	13
Benzol Chloride		Liquid	158	22.1
Benzonitrile	C ₆ H ₅ -CN	Liquid	68	26
Benzonitrile	C ₆ H ₅ -CN	Liquid	104	24
Benzophenone	C ₁₃ H ₁₀	Liquid	68	13
Benzophenone	C ₁₃ H ₁₀	Liquid	122	11.4
Benzotrichloride	C ₆ H ₅ -CCl ₃	Liquid	68	7.4
Benzoyl Bromide	C ₆ H ₅ -COBr	Liquid	77	20.74
Benzoyl Chloride	C ₇ H ₅ OCl	Liquid	158	22.1
Benzoyl Chloride	C ₇ H ₅ OCl		68	19
Benzoyl Chloride	C ₇ H ₅ OCl		32	23
Benzoyl Chloride	C ₆ H ₅ OCl	Liquid	68	23
Benzoylacetone	Ph-CO-CH ₂ -CO-Me	Liquid	68	3.8
Benzyl Acetate	C ₉ H ₁₀ O ₂	Liquid	69.8	5.1
Benzyl Alcohol	C ₇ H ₈ O	Liquid	68	13.1
Benzyl Alcohol	C ₇ H ₈ O	Liquid	158	9.47
Benzyl Benzoate	Ph-COOCH ₂ -Ph	Liquid	68	4.8
Benzyl Chloride	PhCH ₂ Cl	Liquid	68	6.4
Benzyl Chloride	PhCH ₂ Cl	Liquid	55.4	7
Benzyl Cyanide	PhCH ₂ CN	Liquid	68	18.3
Benzyl Cyanide	Ph ₂ CH ₂ CN		155	6
Benzyl Ethyl Ether			68	3.9
Benzyl Ethylamine		Liquid	68	4.3
Benzyl Methylamine		Liquid	67	4.4
Benzyl Salicylate		Liquid	68	4.1
Benzylamine	PhCH ₂ NH ₂	Liquid	68	4.6
Beryl	Al ₂ Be ₂ Si ₆ O ₁₈			6
Beryl (para) Optic Axis	Al ₂ Be ₂ Si ₆ O ₁₈	Solid	71.6	6.08
Beryl (perp) Optic Axis	Al ₂ Be ₂ Si ₆ O ₁₈	Solid	71.6	7.02
Biphenyl	(C ₆ H ₅) ₂	Solid	167	2.53
Biphenyl	(C ₆ H ₅) ₂			20
Birch		Solid		3.1
Bis(2-hydroxyethyl) ether			68	31.69
Bitumen		Liquid		3.5
Biwax				2.5
Bleaching Powder		Powder		1.8-2.0
Bleaching Powder		Powder		4.5
Bone Black				5.0-6.0
Bornyl Acetate	MeCOOC ₁₀ H ₁₇	Liquid	70	4.6
Bornyl Acetate-dl	MeCOOC ₁₀ H ₁₇		69.8	4.6
Bornyl Chloride	C ₁₀ H ₁₇ Cl	Liquid	202	5.21
Boron Bromide	BBr ₃	Liquid	32	2.58
BPA		Liquid	68	5

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Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Bromal	CBr3CHO	Liquid	70	7.6
Bromine	Br2	Liquid	68	3.09
Bromine	Br2		32	1.01
Bromo(1)-2-Chlorobenzene			68	6.8
Bromo(1)-2-Ethoxypentane			77	6.45
Bromo(1)-2-Methylpropane			77	7.2
Bromo(1)-3-Chlorobenzene			68	4.58
Bromo(1)-3-Methylbutane			68	6.05
Bromo(2)-2-Ethoxypentane			77	6.4
Bromo(2)-3-Methylbutyric Acid			68	6.5
Bromo(3)-3-Ethoxypentane			77	8.24
Bromo-2-Othxypentane		Liquid	76	6.45
Bromoacetyl Bromide		Liquid	68	12.6
Bromoaniline	NH2C6H4Br	Liquid	66	13
Bromoaniline	NH2C6H4Br		19	13
Bromoaniline-3			66.2	13
Bromoaniline-4			86	7.06
Bromoaniline-m	C6H6BrN	Liquid	66.2	13
Bromoanisole		Liquid	86	7.06
Bromobenzene	C6H5Br	Liquid	68	5.4
Bromobenzene	C6H5Br	Liquid	77	5.4
Bromobutane-1	C4H9Pr	Liquid	68	7.07
Bromobutane-dl-2			77	8.64
Bromobutylene		Liquid	68	5.8
Bromobutyric Acid		Liquid	68	7.2
Bromochloromethane				7.79
Bromocotyl Bromide		Liquid	68	12.6
Bromoctadecane				3.53
Bromocyclohexane			77	7.9
Bromodecane		Liquid	76	4.44
Bromodecane-1			77	4.44
Bromodeodecane			76	4.1
Bromodocosane		Liquid	130	3.12
Bromododecane-1			77	4.07
Bromododocane		Liquid	76	4.07
Bromodoecane			75	4.07
Bromoethane	C5H5Br	Liquid	68	9.39
Bromoethylene	C2H3Br	Liquid	77	4.78
Bromoform	CHBr2	Liquid	68	4.39
Bromoheptane		Liquid	76	5.33
Bromoheptane-1			194	4.48
Bromoheptane-2			71.6	6.46
Bromoheptane-3			71.6	6.93
Bromoheptane-4			71.6	6.81
Bromohexadecane-1			77	3.71
Bromohexadeoane		Liquid		3.71
Bromohexadeone		Liquid	76	24.4
Bromohexane		Liquid	76	5.82
Bromohexane-1			77	5.82
Bromoisovoleric Acid		Liquid	68	6.5
Bromomethane	CH2Br	Gas	212	1.006
Bromomethane	CH2Br	Liquid	32	9.82
Bromonaphthalene	C10H7Br	Liquid	66	5.1

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Bromonaphthalene-1			68	5.12
Bromononane-1			77	4.74
Bromooctane-1			-58	6.35
Bromooctodecone		Liquid	86	3.53
Bromopentadecane			68	3.9
Bromopentadecane-1			68	3.9
Bromopentaeocone		Liquid	68	3.89
Bromopentane-1			77	6.32
Bromophropionic Acid			68	11
Bromopropane-1			77	8.09
Bromopropane-2			77	9.46
Bromopropionic Acid		Liquid	68	11
Bromotetradecane-1			77	3.84
Bromotoluene	MeC6H4Br	Liquid	68	5.1
Bromotoluene-m	C7H7Br	Liquid	136.4	5.36
Bromotoluene-o	C7H7Br	Liquid	136.4	4.23
Bromotoluene-p	C7H7Br	Liquid	136.4	5.49
Bromotridecane		Liquid	50	4.2
Bromoundecane		Liquid	15	4.73
Bromoundecane-1			16	4.73
Bromyl Chloride			94	5.21
Butane	MeCH2-CH2Me	Liquid	30	1.4
Butanediol-1,4			86	30
Butanedoil-1,3			77	28.8
Butanethiol-1			122	4.59
Butanol-1	C4H10O	Liquid	77	17.1
Butanol-2		Liquid	77	15.8
Butanol-dl-2			77	16.6
Butanone			68	18.5
Butanone Oxime-2			68	3.4
Butanone-2	C4H6O	Liquid	68	18.5
Butene-1		Gas	68	1.003
Butenenitrile-3			68	28.1
Butoxyethanol-2			77	9.3
Butoxyethyne			77	6.62
Butycic Anhydride			20	12
Butycic Anhydride			68	12
Butyl Acetate	C6H12O2	Liquid	68	5.01
Butyl Alcohol-n	C4H10O or BuOH	Liquid	66	7.8
Butyl Bromide-n	C4H9Br	Liquid	68	6.6
Butyl Chloral	MeCHClCCl2-COH	Liquid	64	10
Butyl Chloride	C4H9Cl	Liquid	68	9.6
Butyl Formate	HCOOBu	Liquid	176	2.43
Butyl Formate-n	HCOOBu	Liquid	-317	2.4
Butyl Iodide-n	BuI	Liquid	77	6.1
Butyl Nitrate	BuNO3	Liquid	68	13
Butyl Oleate	C22H42O3	Liquid	77	4
Butyl Stearate	C22H44O2	Liquid	86	3.11
Butylacetate	C6H12O2	Liquid	66	5.1
Butylacetate-n	C6H12O2	Liquid	19	5.1
Butylacetate-n	C6H12O2	Liquid	32	5.3
Butylamine	C4H11N or BuNH2	Liquid	68	4.88
Butylamine	C4H11N or BuNH2	Liquid	70	5.4

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Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Butylamine-sec			69.8	4.4
Butylbenzene	C10H14	Liquid	68	2.36
Butylbenzene-sec	C10H14	Liquid	68	2.36
Butylbenzene-tert			68	2.37
Butyraldehyde	PrCHO	Liquid	78.8	13.4
Butyric Acid	C4H8O2	Liquid	68	2.97
Butyric Acid	C4H8O2	Liquid		2.8
Butyric Acid-n	Me-CH2-CH2-COOH	Liquid	68	2.9
Butyric Anhydride	C8H14O3	Liquid	68	12.9
Butyric Anhydride	C8H14O3	Liquid		12
Butyrolactone-4			68	39.1
Butyronitrile	C4H7N	Liquid	70	20.7
Cable Oil		Liquid	75	2.2
Cake		Powder		1.1-2.2
Calcite	CaCO3			8
Calcite (para) Optic Axis		Solid	71.6	8
Calcite (perp) Optic Axis		Solid	71.6	8.5
Calcium	Ca			3
Calcium Carbonate	CaCO3			6.1-9.1
Calcium Carbonate	CaCO3	Solid	71.6	6.14
Calcium Carbonate (Chalk)	CaCO3	Powder		4.5
Calcium Fluoride	Ca2F6			7.4
Calcium Fluoride	Ca2F6	Solid	71.6	7.36
Calcium Oxide	CaO	Granular		11.8
Calcium Sulfate	CaSO4			5.6
Calcium Sulfate (2H2O)	CaSO4	Solid	71.6	5.66
Calcium Superphosphate				14-15
Camphanedione		Liquid	398	16
Camphene	C10H16	Liquid	68	2.7
Camphene	C10H16	Liquid	104	2.33
Camphene-d	C10H16	Liquid	104	2.33
Campher, Crystal				10.0-11.0
Camphor	C10H16O	Solid	68	11.35
Camphoric Imide 4			80	5.5
Camphorimide	C10H15O2N	Liquid	480	5.5
Camphorpinacane		Liquid	68	3.6
Camprolactam Monomer				1.7-1.9
Caprillic Acid			18	3.2
Caproic Acid	Me(CH2)4COOH	Liquid	160	2.63
Caprylic Acid	Me(CH2)6COOH	Liquid	65	3.2
Carbide		Powder		5.8-7.0
Carbon Bisulfide		Liquid		2.62
Carbon Black				2.5-3.0
Carbon Dioxide	CO2	Liquid	32	1.6
Carbon Dioxide	CO2	Gas	68	1.000921
Carbon Disulfide	CS2	Liquid	68	2.641
Carbon Disulfide	CS2		180	2.2
Carbon Terachloride	CCl4	Liquid	68	2.238
Carbon Tetrachloride	CCl4	Liquid	77	2.23
Carbon Tetrafluoride	CF4	Gas	77	1
Carbonic Acid Gas	HO-COOH	Liquid		1.6
Carnauba Wax				2.9
Carvenone		Liquid	68	18.4

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Carveol	Me-C6H7(OH)C3H5	Liquid	64	11.2
Carvone	C10H14O	Liquid	71	11
Casein				6.1-6.8
Casein Resin				6.0-7.0
Cassiterite	SnO2			23.4
Cassiterite (para) Optic Axis	SnO2	Solid	71.6	24
Cassiterite (perp) Optic Axis	SnO2	Solid	71.6	23.4
Castor Oil		Liquid	58	4.8
Castor Oil		Liquid	75	2.6
Castor Oil, Hydrogenated		Liquid	80	10.3
Castor Oils		Liquid		4.5
Catalyst Kiln Hopper	spent	Powder		1.67
Catalyst Reactor Hopper	regenorated	Powder		2.33
Cedrene	C15H24		76	3.2
Cellophane				3.2-6.4
Cellophane				7-7.7
Celluloid				3.3-11.0
Cellulose	(C6H10O5)x	Solid		3.7-7.5
Cellulose Acetate	C6H9O4-COOMe	Solid		3.6-7.5
Cellulose Acetate	C6H9O4-COOMe	Powder		3.5
Cellulose Acetate (Molding)				3.2-7.0
Cellulose Acetate (Proxylin)				6.4
Cellulose Acetate (Sheet)				4.0-5.5
Cellulose Acetate Butyrate				3.2-6.2
Cellulose Nitrate (Proxylin)				6.4
Cement		Powder		1.5-2.1
Cement (Dry)		Granular		2
Cement, Portland				2.3-2.6
Cement, Powder				5.0-10.0
Cereals		Solid		3.0-5.0
Cerese Wax				2.4
Cesium Iodine				5.6
Cetyl Iodide	C16H33I	Liquid	68	3.3
Chalk (Calcium Carbonate)	CaCO3	Powder		4.5
Charcoal		Powder		1.2-1.81
Charcoal (loose)		Powder		1.3
Cheer		Powder	1.7	
Chinaware, hard				4.7
Chloracetic Acid	CH2ClCOOH		140	12.3
Chloracetone	CH2-Cl-CO-CH3		68	29.8
Chloral	C2HCl3O	Liquid	68	4.9
Chloral Hydrate	CCl3CH(OH)2	Liquid	59	5.5
Chlorhexanone Oxime			192	3
Chlorinated Naphthalene		Viscous S		5
Chlorine	Cl2		-50	2.1
Chlorine	Cl2	Liquid	32	2
Chlorine	Cl2	Liquid	170.6	1.7
Chloro(1)-2-2,3-Epoxypropane			71.6	22.6
Chloro(1)-2-Methylpropane			57.2	6.49
Chloro(1)-2-Propanone			66.2	30
Chloro(1)-3-Methylbutane			68	6.05
Chloro(2)-2-Methylpropane			68	9.96
Chloro(3)-1, Dihydroxyprone		Liquid	68	31

Dielectric Constants

The Right Connection®

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Chloro(3)-1-Propene			68	8.2
Chloroacetic Acid	C2H3ClO2	Liquid	140	12.3
Chloroacetic Acid	C2H3ClO2	Liquid	68	21
Chloroacetone	CH2Cl-CO-Me	Liquid	68	29.8
Chloroaniline-cm			66	13.4
Chloroaniline-m	C6H6ClN	Liquid	66.2	13.4
Chloroaniline-o			77	13.4
Chlorobenzene	C6H5Cl	Liquid	77	5.621
Chlorobenzene	C6H5Cl	Liquid	212	4.7
Chlorobenzene	C6H5Cl	Liquid	248	4.2
Chlorobenzine, liquid		Liquid		5.5-6.3
Chlorobutane-1			68	7.39
Chlorocelle Acid			20	21
Chlorocyclohexane		Liquid	76	7.6
Chlorodifluoromethane	CHClF2	Liquid	75.2	6.11
Chlorododecane-1			68	4.2
Chloroethane		Gas	66.2	1.013
Chloroethanol-2	C2H4ClO	Liquid	77	25.8
Chloroform	CHCl3	Liquid	32	5.5
Chloroform	CHCl3	Liquid	68	4.806
Chloroform	CHCl3		212	3.7
Chloroheptane		Liquid	71	5.48
Chloroheptane-1			68	4.48
Chloroheptane-2			71.6	6.52
Chloroheptane-3			71.6	6.7
Chloroheptane-4			71.6	6.54
Chlorohexanone Oxime		Liquid	192	3
Chlorohydrate		Liquid	68	3.3
Chloromethane	CH2Cl	Gas	212	1.006
Chloromethane	CH2Cl	Liquid	-4	12.6
Chloronaphthalene	C10H7Cl	Liquid	76	5.04
Chloronaphthalene-1			77	5.04
Chloronitrobenzene-m			176	18
Chloronitrobenzene-o			176	32
Chloronitrobenzene-p			248	8
Chloroocelle Acid		Liquid	68	21
Chlorooctane		Liquid	76	5.05
Chlorooctane-1			77	5.05
Chloropentane-1			51.8	6.6
Chlorophenol-o	C6H5Cl	Liquid	66	8.2
Chlorophenol-o	C6H5Cl	Liquid	77	6.31
Chlorophenol-p	C6H5Cl	Liquid	131	9.47
Chlorophetane		Liquid		5.4
Chloropropane-1			68	7.7
Chloropropane-2			68	9.82
Chlorotoluene	C7H7Cl	Liquid	68	4.7
Chlorotoluene-m	C7H7Cl	Liquid	68	5.55
Chlorotoluene-o	C7H7Cl	Liquid	68	4.45
Chlorotoluene-p	C7H7Cl	Liquid	68	6.08
Chlorotrifluoromethane		Gas	84.2	1.001
Cholesterin				2.86
Cholesterol	C27H45OH	Liquid	80	2.9
Chorine			170	1.7

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Chrome Ore				8.0-10.0
Chrome, Ore				7.7-8.0
Chrome, Pure				12
Chromite				4.0-4.2
Chromyl Chloride	CrO ₂ Cl ₂	Liquid	68	2.6
Cinnamaldehyde	C ₉ H ₈ O	Liquid	75.2	16.9
Cis-3-Hexene			76	2.1
Citraconic Anhydride	C ₅ H ₄ O ₃	Liquid	68	40.3
Citraconic Nitrile				27
Clay		Powder		1.8-2.8
Clinker - Pea size to 3/8" Dia			1.9	
Clinker - Pea size to 1" Dia.			2.4	
Clinker (Cement)				2.7
Clycol			50	35.6
Coal	C	Solid		1.2-1.8
Coal Tar				2.0-3.0
Coal, Powder, Fine				2.0-4.0
Cocaine	C ₁₇ H ₂₁ O ₄ N	Liquid	68	3.1
Cocaine-d		Solid	71.6	3.1
Cocoa		Powder		2.5-3.5
Coffe		Powder		2.4-2.6
Coffe Refuse				2.4-2.6
Coke		Solid		1.1-2.2
Coke (loose)		Granular		65.3
Coke (packed)		Granular		70
Cold Molding Compound	Organic			6
Colophonium				2.5-2.6
Compound				3.6
Copper Catalyst				6.0-6.2
Copper Catalyst (loose)		Powder		6
Copper Oleate		Liquid	68	2.8
Copper Oxide	Cu ₂ O ₃			18.1
Cordierite	Mg ₄ Al ₈ O ₆ (SiO ₃) ₁₀			2.5-5.4
Corn				2.3-2.6
Corn				5.0-10.0
Corn (Dry Granulars)		Granular		1.8
Corn, Refuse				2.3-2.6
Corning Glass				6.5
Cotton				1.3-1.4
Cotton Seed Oil	See Oil, Cottonseed			
Creosol	MeO-C ₆ H ₃ (OH)Me	Liquid	62	10.6
Creosol-m				5
Creosol-o				5.8
Creosol-p				5.6
Cresol	C ₇ H ₇ OCl	Liquid		9.0-11.0
Cresol	C ₇ H ₇ OCl	Liquid	75	5
Cresol-m	C ₇ H ₈ O	Liquid	77	11.8
Cresol-m	C ₇ H ₈ O	Liquid	75.2	5.8
Cresol-o	C ₇ H ₈ O	Liquid	77	11.5
Cresol-o	C ₇ H ₈ O		24	5.8
Cresol-p	C ₇ H ₈ O	Liquid	75	5.6
Cresol-p	C ₇ H ₈ O	Liquid	136.4	9.91
Crotonic Nitrice		Liquid	68	28

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Crystale				3.5-4.7
Cumaldehyde			59	11
Cumene	PhCHMe2	Liquid	68	2.4
Cumicaldehyde			58	10.7
Cupric Oleate	Cu-(C18H23O2)2	Solid	71.6	2.8
Cupric Oxide	CuO	Solid	59	18.1
Cupric Sulfate (2H2O)	CuSO4	Solid	71.6	7.8
Cupric Sulfate (anhyd)	CuSO4	Solid	71.6	10.3
Cyan	N:C...			2.6
Cyanoacetic Acid		Liquid	40	33
Cyanoacetic Acid		Liquid	66.2	33.4
Cyanoethyl Acetate		Liquid	68	19.3
Cyanogen	NC-CN	Liquid	73	2.6
Cyclohedane			20	2
Cyclohenanone			68	18.2
Cycloheptasiloxane			68	2.7
Cyclohexadiene-1,3			-128	2.6
Cyclohexane	C6H12	Liquid	77	2.02
Cyclohexane	C6H12		68	2
Cyclohexane, liquid	C6H12	Liquid		18.5
Cyclohexanecarboxylic Acid			87.8	2.6
Cyclohexanedione-1,4			77	15
Cyclohexanemethanol		Liquid	140	9.7
Cyclohexanol	C6H12O	Liquid	77	15
Cyclohexanol	C6H12O	Liquid	212	7.24
Cyclohexanone	C6H10O	Liquid	68	18.2
Cyclohexanone Oxime		Liquid	192	3
Cyclohexene	C6H10	Liquid	77	2.22
Cyclohexene	C6H10		68	18.3
Cyclohexylamine		Liquid	68	4.73
Cyclohexylamine			-5	5.3
Cyclohexylmethanol			176	8.1
Cyclohexylomine		Liquid	-5	5.3
Cyclohexylphenol		Liquid	130	3.97
Cyclohexylphenol-o			131	3.97
Cyclohexylphenol-p			268	4.42
Cyclohexyltrifluoromethane			-120	11
Cyclohexyltrifluoromethane-1 4			68	11
Cyclopentane	C5H10	Liquid	68	1.965
Cyclopentanol	C5H10O	Liquid	68	18
Cyclopentanone	C5H8O	Liquid	-57	16
Cycolic Nitrile				27
Cymene	C10H14	Liquid	62	2.3
Cymene-p	C10H14	Liquid	68	2.243
D-Cocaine				3.1
Dacron Powder	See Detergent: Dacron Powder			
Decahydronaphthalene			68	2.2
Decahydronaphthalene-cis			68	2.18
Decahydronaphthalene-trans			68	2.128
Decamethylcyclopentasiloxane			68	2.5
Decamethyltetrasiloxane	C6H18OSi2	Liquid	68	2.39
Decanal				8.1
Decane	C10H22	Liquid	266	1.844

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Decane-n	C10H22	Liquid	68	1.991
Decanol-1	C10H22	Liquid	68	8.1
Decylene			62	2.7
Decyne			68	2.2
Detergent FAB 10.9% Moisture	loose	Powder		(plus) 1.3
Detergent FAB 10.9% Moisture	packed	Powder		(plus) 1.3
Detergent FAB 7.6% moisture	loose	Powder		1.3
Detergent FAB 7.6% Moisture	packed	Powder		1.3
Detergent Tide	loose	Powder		2
Detergent Tide	packed	Powder		2
Detergent Tide	moisture removed	Powder		2.75
Detergent VEL 0.8% Moisture	loose	Powder		1.25
Detergent VEL 0.8% Moisture	packed	Powder		1.25
Detergent VEL 1.3% Moisture	loose	Powder		1.25
Detergent VEL 1.3% Moisture	packed	Powder		1.25
Detergent: Dacron Powder	loose	Powder		1.33
Detergent: Dacron Powder	packed	Powder		1.33
Deuterium	D2	Liquid	68	1.3
Deuterium Oxide	D2O	Liquid	77	78.25
Dextrin	(C6H10O5)x			2.2-2.4
Di(2-ethylhexyl) o-phthalate			113	4.77
Diacetoxybutane		Liquid	76	6.64
Diallyl Sulfide	(C3H5)2S	Liquid	68	4.9
Diamond	C	Solid	71.6	5.5
Diamond	C			5.5-10
Diaphenylmethane				2.7
Diaplmitin				3.5
Dibenzofuran	C6H4-O-C6H	Solid	212	3
Dibenzyl Decanedioate			77	4.6
Dibenzyl Sebacate			68	4.6
Dibenzylamine	C14H15N	Liquid	68	3.6
Dibroheptane			24	5.08
Dibromobenzene	C6H4Br2	Liquid	68	8.8
Dibromobenzene-m			68	3.8
Dibromobenzene-o	C6H4Br2	Solid	68	7.35
Dibromobenzene-p	C6H4Br2	Liquid	190	4.5
Dibromobenzene-p	C6H4Br2		203	2.57
Dibromobutane	Me2CBr-CH2Br	Liquid	68	5.7
Dibromobutane-2,3			77	5.75
Dibromoethane-1,2			267	4.09
Dibromoethylene-cis-1,2	C2H2Br2		32	7.7
Dibromoethylene-cis-1,2	C2H2Br2	Liquid	77	7.08
Dibromoethylene-trans-1,2	C2H2Br2	Liquid	77	2.88
Dibromoheptane		Liquid	76	5.08
Dibromoheptane-1,2			77	3.8
Dibromoheptane-2,3			77	5.1
Dibromoheptane-3,4			77	4.7
Dibromohexane		Liquid	76	5
Dibromomethane	CH2Br2	Liquid	50	6.68
Dibromomethane	CH2Br2		50	7.8
Dibromopropane		Liquid	68	4.3
Dibromopropane-1,2			68	4.3
Dibromopropyl Alcohol		Liquid	70	9.1

Dielectric Constants

The Right Connection®

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Dibromotetrafluoroethane			77	2.34
Dibutyl Decanedioate			86	4.54
Dibutyl Ether			77	3.06
Dibutyl o-phthalate	C16H22O4	Liquid	113	5.99
Dibutyl Phthalate	C16H22O4	Liquid	86	6.4
Dibutyl Phtolote				
Dibutyl Sebacate		Liquid	86	4.54
Dibutyl Tartrate		Liquid	109	9.4
Dibutylamine			68	2.978
Dichloro(1,1)-2-Propanone			68	14
Dichloroacetic Acid	C2H2O2Cl2	Liquid	141.8	7.8
Dichloroacetic Acid	C2H2O2Cl2	Liquid	71.6	8.2
Dichloroacetic Acid	C2H2O2Cl2		20	10.7
Dichloroacetone	CHCl2-COCH3	Liquid	68	14
Dichlorobenzene	C6H4Cl2	Liquid	127	2.8
Dichlorobenzene-m	C6H4Cl	Liquid	77	5.04
Dichlorobenzene-o	C6H4Cl	Liquid	68	7.5
Dichlorobenzene-o	C6H4Cl	Liquid	77	9.93
Dichlorobenzene-p	C6H4Cl	Liquid	122	2.41
Dichlorobenzene-o		Liquid	77	7.5
Dichlorobenzene-p		Liquid	68	2.86
Dichlorobutane-1,4			77	8.9
Dichlorocotone		Liquid	68	14
Dichlorodifluoromethane	CCl2F2	Gas	84.2	2.13
Dichloroethane	C2H4Cl2	Liquid	68	16.7
Dichloroethane-1,1		Liquid	60.8	10.86
Dichloroethane-1,2	C2H4Cl2	Liquid	77	10.7
Dichloroethane-1,2	C2H4Cl2	Liquid	68	10.65
Dichloroethane-2				10.7
Dichloroethyl Ether-2,2			68	21.2
Dichloroethylene	C2H2Cl2		62	4.6
Dichloroethylene-1,1	C2H2Cl2	Liquid	60.8	4.67
Dichloroethylene-cis-1,2	C2H2Cl2	Liquid	77	9.2
Dichloroethylene-trans-1,2	C2H2Cl2	Liquid	77	2.14
Dichlorofluoromethane			82.4	5.34
Dichloromethane	CH2Cl2	Liquid	68	9.08
Dichloropropane-1,2			95	7.9
Dichloropropane-2,2			68	11.37
Dichlorostyrene		Liquid	76	2.58
Dichlorotetrafluoroethane-1,2			77	2.26
Dichlorotoluene		Liquid	68	6.9
Dictyl Phthalate				5.1
Dicyclohexyladipate		Liquid	95	4.84
Diebenzylamine			68	3.6
Diethanolamine	NH(CH2-CH2OH)2	Liquid	77	2.81
Diethoxyethane-1		Liquid	76	3.8
Diethoxyethane-1,1			77	3.8
Diethyl 1-Malate			68	9.5
Diethyl Benzalmalonate		Liquid	32	8
Diethyl Carbonate	Et2CO3	Liquid	68	2.82
Diethyl Decanedioate			86	5
Diethyl Detane			30	6.68
Diethyl Disulfide	EtS-SEt	Liquid	66	18.9

Dielectric Constants

The Right Connection®

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Diethyl Disulfide	EtS-SEt		66	15.9
Diethyl Malanata			14.4	17.3
Diethyl DI-Malate		Liquid	64	10.2
Diethyl Ether	C4H10O	Liquid	104	3.97
Diethyl Ethyl Phosphonate			113	9.86
Diethyl Fumarate			73.4	6.5
Diethyl Glutarate		Liquid	86	6.66
Diethyl I-Malate	EtOOC-CHOH-COOEt	Liquid		9.5
Diethyl Ketone	EtCOEt	Liquid	58	17.3
Diethyl L-Malate			68	9.5
Diethyl Maleate			73.4	8.58
Diethyl Malonate		Liquid	70	7.9
Diethyl Malonate			77	1.94
Diethyl Nonanedioate			86	5.13
Diethyl o-phthalate	C15H14O4	Liquid	113	7.13
Diethyl Oxalacetate		Liquid	66	6.1
Diethyl Oxalate		Liquid	70	8.2
Diethyl Racemate		Liquid	68	4.5
Diethyl Sebacate		Liquid	86	5
Diethyl Succinate		Liquid	86	6.64
Diethyl Succinosuccinate		Liquid	66	2.5
Diethyl Sulfate	(C2H5)2SO4	Liquid	68	29
Diethyl Sulfide	(C2H5)2S	Liquid	68	7.2
Diethyl Sulfide	(C2H5)2S		122	5.24
Diethyl Sulfite		Liquid	68	15.9
Diethyl Sulfite		Liquid	122	14
Diethyl Tartrate	EtOOC-(CHOH)2-COOEt	Liquid	68	4.5
Diethyl Tortate			20	4.5
Diethyl Zinc	C4H10Zn	Liquid	68	2.5
Diethyl-Dimalate				10.2
Diethylamine	Et2NH	Liquid	68	3.7
Diethylaniline	C6H5N(C2H5)2	Liquid	66	5.5
Diethylaniline-N,N			66.2	5.5
Dihydrocoroane			18.9	8.7
Dihydrocaroon			66	8.7
Dihydrocarvone	C10H16O	Liquid	66	8.5
Dihydroxybenzene-1,2			-128	2.6
Dihydroxybenzene-1,3			64.4	3.2
Diimylamine		Liquid	64	2.5
Diiodomethane			24.4	5.3
Diioamylene			62	2.4
Diiodobenzene-1,2			68	5.7
Diiodobenzene-1,3			77	4.3
Diiodobenzene-1,4			248	2.9
Diiodoethylene		Liquid	180	4
Diiodoethylene-cis-1,2			181.4	4.46
Diiodoethylene-trans-1,2			181.4	2.19
Diiodomethane	CH2I2	Liquid	77	5.32
Diisoamyl		Liquid	62	2
Diisoamylene				2.4
Diisobutylamine	C8H19N	Liquid	71	2.7
Diisopentyl Ether			68	2.82
Diisopentylamine			64.4	2.5

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Diisopropyl Ether			77	3.88
Dimethoxybenzene		Liquid	73	4.5
Dimethoxybenzene-1,2			77	4.09
Dimethoxyethane-1,2			77	7.2
Dimethoxymethane			68	2.65
Dimethyl Ether	MeOMe	Gas	230	2.97
Dimethyl Ethyl		Liquid	68	11.7
Dimethyl Ethyl Carbinol			68	11.7
Dimethyl Malonate			68	10.4
Dimethyl o-phthalate	o-C6H4(COOMe)2	Liquid	113	8.11
Dimethyl Oxalate	C4H6O4	Liquid	68	3
Dimethyl Pentane			20	1.912
Dimethyl Phthalate	C10H10O4	Liquid	75.2	8.5
Dimethyl Succinate			68	5.1
Dimethyl Sulfate	(CH3O)2SO2	Liquid	68	55
Dimethyl Sulfate	(CH3O)2SO2	Liquid	68	46.4
Dimethyl Sulfide		Liquid	68	6.3
Dimethyl Sulfite			73.4	22.5
Dimethyl Sulfoxide	Me2-S:O:SMe		131	41.9
Dimethyl(3)-2-Butanone			293	13.1
Dimethyl-1-Hydroxybenzene			62	4.8
Dimethyl-2-Hexane		Liquid	68	2.4
Dimethyl-o-Toluidine-N,N			68	3.4
Dimethyl-p-Toluidine-N,N			68	3.9
Dimethylacetamide-N,N			77	37.78
Dimethylamine	C2H7N	Liquid	77	5.26
Dimethylamine	C2H7N		32	6.3
Dimethylaniline	Ph-NMe2	Liquid	68	4.4
Dimethylaniline-N,N			158	4.4
Dimethylbromoethylene			68	6.7
Dimethylbutane-2,2			77	1.873
Dimethylbutane-2,3			77	1.89
Dimethylbutyramide-N,N				2
Dimethylformamide-N,N			77	36.71
Dimethylheptane		Liquid	68	1.9
Dimethylheptane-2,4			68	1.9
Dimethylheptane-2,5			68	1.9
Dimethylheptane-2,6			68	2
Dimethylpentane		Liquid	68	1.912
Dimethylpentane-2,2			68	1.91
Dimethylpentane-2,3			68	1.939
Dimethylpentane-2,4			68	1.914
Dimethylpentane-3,3			68	1.94
Dimethylphenol-3,4			62.6	4.8
Dimethylpropane-2,2			208.4	1.678
Dimethylpropionamide-N,N				33.1
Dimethylpyrazine-2,5			68	2.43
Dimethylquinoxaline		Liquid	76	2.28
Dimethylquinoxaline-2,3			77	2.3
Dimethyloiline			20	4.4
Dimethyltoluidine		Liquid	68	3.3
Dinitro Benzene-m	C7H4(NO2)2	Liquid	68	2.8
Dinitrogen Oxide	N2O	Liquid	32	1.61

Dielectric Constants

The Right Connection®

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Dinitrogen Tetroxide	N ₂ O ₄	Liquid	59	2.5
Dinonyl o-phthalate			113	4.52
Diocetyl Decanedioate			80.6	4
Diocetyl Phthalate		Liquid	76	5.1
Dioxane-1,4	C ₄ H ₈ O ₂	Liquid	77	2.209
Dipalmitin	C ₃₃ H ₆₈ O ₅	Liquid	161	3.52
Dipentene	C ₁₀ H ₁₆	Liquid	68	2.3
Dipentyl Ether			77	2.77
Dipentyl o-phthalate		Liquid	113	5.62
Dipentyl Sulfide			77	3.83
Dipenylamine			125	3.3
Diphenylmethane			230	2.4
Diphentymethane			62	2.6
Diphenyl	C ₁₂ H ₁₀	Liquid	167	2.53
Diphenyl	C ₁₂ H ₁₀		74	2.53
Diphenyl Ether	(C ₆ H ₅) ₂ O	Liquid	86	3.65
Diphenylamine	C ₁₂ H ₁₁ N		51	3.3
Diphenylamine	C ₁₂ H ₁₁ N	Liquid	125.6	3.3
Diphenylethane	Ph(CH ₂) ₄ Ph		110	2.38
Diphenylethane	Ph(CH ₂) ₄ Ph	Liquid	230	2.38
Diphenylethane	Ph(CH ₂) ₄ Ph	Solid	71.6	2.7
Diphenylethane-1,2			230	2.4
Diphenylmethane	Ph-CH ₂ -Ph	Liquid	78.8	2.57
Dipropyl Ether	Pr ₂ O	Liquid	78.8	3.39
Dipropyl Ketone	Pr-CO-Pr	Liquid	62	12.6
Dipropylamine	C ₆ H ₁₅ N	Liquid	70	2.9
Distearin	C ₃₉ H ₇₅ O ₅	Liquid	172	3.32
Divinyl Ether	(CH ₂ :CH ₂) ₂ O	Liquid	68	3.9
DMT (Dacron Powder)		Powder		1.33
Docosane	Me(CH ₂) ₂₀ Me	Liquid	122	2
Dodecamethylcyclohexisiloxane			68	2.6
Dodecamethylpentasiloxane	C ₆ H ₁₈ OSi ₂	Liquid	68	2.46
Dodecane	Me(CH ₂) ₁₀ Me	Liquid	68	2.01
Dodecane-n	C ₁₂ H ₂₆	Liquid	68	2.015
Dodecanol	Me(CH ₂) ₁₁ OH	Liquid	76	6.5
Dodecanol-1			77	6.5
Dodecyne		Liquid	76	2.171
Dodecyne-6			77	2.17
Dolomite	CaMg(CO ₃) ₂	Solid		6.8-8.0
Dolomite (para)	CaMg(CO ₃) ₂	Solid	71.6	6.8
Dolomite (perp) Optic Axis	CaMg(CO ₃) ₂	Solid	71.6	8
Double Diamond	C	Solid		80
Douglas Fir 11% Water		Solid		3.2
Dowtherm	(C ₆ H ₅) ₂ O + 26.5% (C ₆ H ₅) ₂	Liquid	70	3.36
Dreft		G&P	1.55	
Dry Cement		Granular		2
Ebonite		Powder		2.5-2.9
Ebonite, pure		Powder		3
Emery Sand		Granular		16.5
Epichlorohydrin	C ₃ H ₅ OCl	Liquid	68	22.9
Epoxy Resin				2.5-6
Epoxy Resin (Cast)				3.6
Erythritol	H(CHOH) ₄ H	Solid	264	28

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Ethane	C ₂ H ₆	Gas	32	1.001
Ethanediamine	NH ₂ CH ₂ -CH ₂ NH ₂	Liquid	68	14.2
Ethanediamine-1,2	NH ₂ CH ₂ -CH ₂ NH ₂	Solid	68	14.2
Ethanediol Diacetate-1,2			86	13
Ethanediol-1,2	CH ₂ OH-CH ₂ OH	Liquid	77	37.7
Ethanethiol	EtSH	Liquid	58	6.9
Ethanethiolic Acid	MeCOSH	Liquid	68	13
Ethanol	C ₂ H ₆ O	Liquid	131	20.21
Ethanol	C ₂ H ₆ O	Liquid	77	24.3
Ethelene Diamine			18	16
Ethelene Diamine			64	16
Ethelene Oxide			30	13.9
Ethoxy(1)-2-Methylbutane			68	3.96
Ethoxy-3-Methylbutane		Liquid	68	3.96
Ethoxybenzene	Ph-O-Et	Liquid	68	4.22
Ethoxyethanol-2			75.2	29.6
Ethoxyethyl Acetate		Liquid	86	7.57
Ethoxyethyl Acetate-2			86	7.567
Ethoxynaphthalene	C ₁₀ H ₇ OEt	Liquid	66	3.3
Ethoxynaphthalene-1			66.2	3.3
Ethoxypentane		Liquid	73	3.6
Ethoxypentane-1			73.4	3.6
Ethoxytoluene		Liquid	68	3.9
Ethoxytoluene-(alpha)			68	3.9
Ethyl (alpha)-bromobutyrate			68	8
Ethyl 1-Bromobutyrate		Liquid	68	8
Ethyl 2-Iodopropionate		Liquid	68	8.8
Ethyl 3-Methylbutyrate			64.4	4.71
Ethyl 4-Oxopentanoate			69.8	12
Ethyl 9-Octadecenoate			77	3.2
Ethyl Acetate	C ₄ H ₈ O ₂	Liquid	68	6.4
Ethyl Acetate	C ₄ H ₈ O ₂	Liquid	170.6	5.3
Ethyl Acetoacetate	C ₆ H ₁₀ O	Liquid	71.6	15.7
Ethyl Acetoneoxalate		Liquid	66	16.1
Ethyl Acetophenoneoxalate		Liquid	66	3.3
Ethyl Alcohol (See Ethanol)				
Ethyl Amyl Ether		Liquid	68	4
Ethyl Benzene	C ₈ H ₁₀	Liquid	76	2.98
Ethyl Benzene	C ₈ H ₁₀	Liquid	68	2.412
Ethyl Benzoate	C ₉ H ₁₀ O ₂	Liquid	68	6.02
Ethyl Benzoylacetate	PHCOCH ₂ COOEt	Liquid	68	12.8
Ethyl Benzoylacetatoacetate		Liquid	70	8.6
Ethyl Benzyl Ether	Et-OCH ₂ Ph	Liquid	68	3.8
Ethyl Bromide	C ₂ H ₅ Br	Liquid	64	4.9
Ethyl Bromoisobutyrate		Liquid	68	7.9
Ethyl Bromopropionate		Liquid	68	9.4
Ethyl Butyrate	C ₆ H ₁₂ O ₂	Liquid	68	5.1
Ethyl Carbamate	C ₃ H ₆ NO ₂	Liquid	122	14.2
Ethyl Carbonate	Et ₂ CO ₃	Liquid	68	3.1
Ethyl Cellulose				2.8-3.9
Ethyl Chloroacetate	CH ₂ Cl-COOEt	Liquid	68	11.6
Ethyl Chloroformate	ClCCOOEt	Liquid	68	11.3
Ethyl Chloropropionate	MeCHClCOOEt	Liquid	68	10.1

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Ethyl Cinnamate	PhCH:CH-COOEt	Liquid	66	5.3
Ethyl Crotonate			68	5.4
Ethyl Cyanacetate	CN-CH ₂ -COOEt	Liquid	68	26.9
Ethyl Cyclobutane	C ₆ H ₁₂	Liquid	68	1.965
Ethyl Dichloroacetate	Cl ₂ CHCOOEt	Liquid	71.6	10
Ethyl Dodecanoate			287	2.7
Ethyl Dodeconoate		Liquid	68	3.44
Ethyl Ether	C ₄ H ₁₀ O	Liquid	-148	8.1
Ethyl Ether	C ₄ H ₁₀ O	Liquid	68	4.34
Ethyl Ether	C ₄ H ₁₀ O	Liquid		4.7-8.1
Ethyl Ether	C ₄ H ₁₀ O	Liquid	-40	5.7
Ethyl Ethoxybenzoate		Liquid	70	7.1
Ethyl Formate	HCOOEt	Liquid	66	8.4
Ethyl Formate	HCOOEt		43	8.4
Ethyl Formate	HCOOEt	Liquid	77	7.16
Ethyl Formylphenylacetate			68	3
Ethyl Fumurate		Liquid	73	6.5
Ethyl Hexadecanoate			217	2.71
Ethyl Hydroxy-Tetracarboxylate				5.9
Ethyl Hydroxy-Tetrocarboxylate				2.7
Ethyl Iodide	C ₂ H ₅ I	Liquid	68	7.4
Ethyl Isopentyl Ether			68	3.96
Ethyl Isothiocyanate		Liquid	68	19.7
Ethyl Lactate			77	13.1
Ethyl Levulinate		Liquid	70	12.1
Ethyl Maleate	EtOOC-CH ₂ -CHOH-COOEt	Liquid	73	8.5
Ethyl Mercaptan	EtSH	Liquid	68	8
Ethyl Nitrate	C ₂ H ₅ O ₃ N	Liquid	68	19.7
Ethyl Oleate	C ₂₀ H ₃₈ O ₂	Liquid	82.4	3.17
Ethyl Palmitate	C ₁₈ H ₃₆ O ₂	Liquid	68	3.2
Ethyl Pentane		Liquid	68	1.939
Ethyl Pentanoate			64.4	4.7
Ethyl Pentyl Ether			73.4	3.6
Ethyl Phenylacetate	PhCH ₂ COOEt	Liquid	70	5.4
Ethyl Polminate		Liquid	68	3.2
Ethyl Propionate	EtCOOEt	Liquid	68	5.7
Ethyl Salicylate	C ₉ H ₁₀ O ₃	Liquid	70	8.6
Ethyl Salicylate	C ₉ H ₁₀ O ₃	Liquid	86	7.99
Ethyl Silicate	(C ₂ H ₅) ₄ SiO ₄	Liquid	68	4.1
Ethyl Solicylate			21.1	8.6
Ethyl Stearate	C ₂₀ H ₄₀ O ₂	Liquid	104	2.98
Ethyl Stearate	C ₂₀ H ₄₀ O ₂	Liquid	212	2.69
Ethyl Thiocyanate	C ₂ H ₅ SCN	Liquid	68	29.6
Ethyl Toluene		Liquid	76	2.24
Ethyl Trichloroacetate		Liquid	68	7.8
Ethyl Undeconoate		Liquid	68	3.55
Ethyl Valerate	BuCOOEt	Liquid	68	4.7
Ethyl(2)-1-Butanol			194	6.19
Ethyl(2)-1-Hexanol			194	4.41
Ethylamine	EtNH ₂	Liquid	70	6.3
Ethylamine	EtNH ₂	Liquid	50	6.94
Ethylaniline	C ₆ H ₅ NH(C ₂ H ₅)	Liquid	68	5.9
Ethylaniline-n			68	5.76

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Ethylcyclohexane	C8H16	Liquid	68	2.054
Ethylcyclopropane	C5H10	Liquid	68	1.933
Ethylene	...CH2-CH2...	Gas	32	1.001
Ethylene	...CH2-CH2...	Powder		2.3
Ethylene Carbonate			195.8	69.4
Ethylene Chloride	ClCH2-CH2Cl	Liquid	68	10.5
Ethylene Chlorohydrin	ClCH2-CH2OH	Liquid	75	25
Ethylene Cyanide	C4H4N2	Liquid	136	58.3
Ethylene Diamine	NH2CH2-CH2NH2	Liquid	64.4	16.1
Ethylene Dichloride	ClCH2-CH2Cl			11.0-17.0
Ethylene Dinitrate	(CH2NO3)2	Liquid	68	28.3
Ethylene Glycol	CH2OH-CH2OH	Liquid	68	41.2
Ethylene Glycol	CH2OH-CH2OH		68	37
Ethylene Glycol	CH2OH-CH2OH	Liquid	77	37.7
Ethylene Iodide	(CH2I)2			3.4
Ethylene Oxide	C2H4O			4.0-5.0
Ethylene Oxide	C2H4O	Liquid	30	13.9
Ethylene Tetrafluoride				1.9-2.0
Ethylene/Ethyl Resin				2.2-23
Ethylenediamine	NH2CH2-CH2NH2	Liquid	64	16
Ethylenediamine	NH2CH2-CH2NH2	Liquid	68	14.2
Ethyleneimine			77	18.3
Ethyl Resin				2.2-2.3
Ethylpentane-3			68	1.94
Ethyltoluene-p			77	2.24
Etibine		Liquid	-58	2.5
Eugenol	C10H12O2	Liquid	64	6.1
FAB	See Detergent FAB			
Fenchone	C10H16O	Liquid	68	12
Fermanium Tetrachloride			76	2.4
Ferric Oleate	Fe(C18H33O2)3	Liquid	68	2.6
Ferric Oxide	Fe2O3	Powder		1.4-1.8
Ferrochromium	Fe 50, Cr 50%			1.5-1.8
Ferromanganese	Fe 50, Mn 50%			5.0-5.2
Ferromanganese	Fe 50, Mn 50%			2.8-3.2
Ferrous Oxide	FeO	Solid	59	14.2
Ferrous Sulfate	FeSO4-7H2O	Liquid	58	14.2
Fibre		Solid		4.5
Fibre		Solid		2.5-5.0
Flour		Powder		2.5-3.0
Fluorine	F2	Liquid	-330	1.54
Fluorine Resin				2.0-8.0
Fluorite	CaF2	Solid		6.8
Fluoro(2)-2-Methylbutane			68	5.89
Fluorobenzene	C6H5F	Liquid	140	4.7
Fluoropentane-1			68	4.24
Fluorotoluene		Liquid	86	4.22
Fluorotoluene-m			140	4.9
Fluorotoluene-o			140	3.9
Fluorotoluene-p			140	5.3
Fluorspar	CaF2			6.8
Fly Ash		Granular		1.9-2.6
Fly Ash (loose)		Granular		1.7

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Fly Ash (packed)		Granular		2
Formalin	27% (US) formaldehyde solution			23
Formamide	CH3NO		68	84
Formamide	CH3NO	Liquid	68	109
Formamide	CH3NO	Liquid	104	103.5
Formic Acid	CH1O2	Liquid	60	58.5
Formic Acid	CH1O2	Liquid	69.8	57
Forsterite	Mg2SiO4			6.2
Freon 11		Liquid	70	3.1
Freon 113		Liquid	70	2.6
Freon 12	CCl2F2	Liquid	70	2.4
Fuller's Earth	Calcium Montmorillonite			1.8-2.2
Furaldehyde-2			122	34.9
Furan	C4H4O	Liquid	77	2.95
Furfural	C5H4O2	Liquid	68	41.9
Furfuraldehyde	C4H3O-CHO	Liquid	68	41.9
Fused Quartz		Granular		3.8
Gains Gravy Trian Dog Food		Granular	1.65	
Gasoline			70	2
Gasoline		Liquid		2-2.2
Gerber Oatmeal (in box)				1.5
Germanium Tetrachloride	GeCl4	Liquid	77	2.43
Glass		Solid		3.7-10.0
Glass (Lead)		Solid		3.7
Glass (Perlite) (loose)		Granular		1.3
Glass (Perlite) (packed)		Granular		1.4
Glass, Bead				3.1
Glass, Granule		Granular		6.0-7.0
Glass, Raw Material		Granular		2.0-2.5
Glass, Silica				3.8
Glass-Epoxy Plate		Solid		4.5-5.2
Glass-Silicon Plate		Solid		3.5-4.2
Glucohepititol		Liquid	248	27
Glycerine		Liquid	68	47
Glycerine		Liquid		47.0-68.0
Glycerine		Liquid		43
Glycerol	C3H8O3	Liquid	32	47.2
Glycerol	C3H8O3	Liquid	77	42.5
Glycerol Phthalate (Cast Alkyd)				3.7-4.0
Glycerol Triacetate		Liquid	68	7.2
Glycerol Trinitrate	C3H5(ONO2)3	Liquid	68	19
Glycerol Triocetate			70	6
Glycerol Trioleate			78.8	3.2
Glycerol Tripalmitate	C3H5(C15H31COO)3	Solid	149	2.9
Glycerol Tristearate	C3H5(C17H35COO)3	Solid	158	2.8
Glycol	C2H6O2	Liquid	68	42.2
Glycol	C2H6O2	Liquid	77	37.7
Glycol	C2H6O2	Liquid	122	35.6
Glycolic Nitrile		Liquid	68	27
Grain		Granular		3.0-8.0
Granite		Granular		7.0-9.0
Granular Sugar		Granular		1.5-2.2
Graphite				12.0-15.0

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Guaiacol	C6H4(OH)OMe	Liquid	0	11
Gypsum				2.5-6.0
Gypsum				6.3
Hagemannic Ester		Liquid	68	10.6
Halowax				4.5
Helium	He	Liquid	-453	1
Helium	He	Liquid		1.05
Helium-3			58	1.055
Heptadecanone		Liquid	140	5.3
Heptanaldehyde			68	9.1
Heptane	Me(CH2)Me	Liquid	68	1.9
Heptane	Me(CH2)Me		158	1.85
Heptane-1			68	2.1
Heptanoic Acid	Me(CH2)5COOH	Liquid	160	2.59
Heptanoic Acid	Me(CH2)5COOH		71	2.5
Heptonic Acid			71	2.59
Heptanol-1			71.6	12.1
Heptanol-4			71.6	6.2
Heptanol-dl-2			71.6	9.21
Heptanol-dl-3			71.6	6.9
Heptanone		Liquid	68	11.9
Heptanone-2			212	8.27
Heptanone-3			71.6	12.9
Heptanone-4			176	9.46
Heptaonic Acid			160	2.6
Heptene-1	C7H9N	Liquid	68	2.07
Heptyl Alcohol	C7H16O	Liquid	70	6.7
Hexadecanol-1			122	3.8
Hexadiene-2,4			77	2.2
Hexamethyldisiloxane	C6H18OSi2	Liquid	68	2.17
Hexamethylphosphoramide			68	30
Hexane	Me2(CH2)4		-130	2
Hexane	Me2(CH2)4	Liquid	68	1.89
Hexane, Liquid		Liquid		5.8-6.3
Hexane-n	C6H14	Liquid	68	1.89
Hexane-trans-3		Liquid	76	2
Hexanedinitrile				32.45
Hexanenitrile			77	17.26
Hexanoic Acid	Me(CH2)4COOH	Liquid	159.8	2.63
Hexanol	C6H14O	Liquid	76	13.3
Hexanol-1	C6H14O	Liquid	77	13.3
Hexanone	Et-CO-Pr	Liquid	59	14.6
Hexanone-2			59	14.6
Hexene-1			68	2.051
Hexene-cis-3		Liquid	76	2.062
Hexomethyldisiloxane		Liquid	68	2.17
Hexyl Iodide	C6H13I	Liquid	68	6.6
Hexylene	CH2:CH(CH2)3Me	Liquid	62	2
Hydrazine	N2H4	Liquid	68	52.9
Hydrochloric Acid	HCl	Liquid		88
Hydrochloric Acid	HCl			4.6
Hydrochloric Acid	HCl			4.0-12.0
Hydrocyanic Acid	CHN	Liquid	68	114

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Hydrocyanic Acid	CHN		70	2.3
Hydrocyanic Acid	CHN		32	158
Hydrogen	H2	Liquid	212	1.000284
Hydrogen	H2	Liquid	440	1.228
Hydrogen Bromide	HBr	Liquid	76	3.8
Hydrogen Bromide	HBr	Liquid	-121	7
Hydrogen Chloride	HCl	Liquid	82	4.6
Hydrogen Chloride	HCl		-188	12
Hydrogen Cyanide	HCN	Liquid	70	95.4
Hydrogen Fluoride	HF	Liquid	32	84.2
Hydrogen Fluoride	HF		73	11.0-17.0
Hydrogen Fluoride	HF		-100	17
Hydrogen Iodide	HI	Liquid	72	2.9
Hydrogen Iodide	HI	Liquid	-58	3.39
Hydrogen Peroxide	H2O2	Liquid	32	84.2
Hydrogen Sulfide	H2S	Liquid	-120	9.3
Hydrogen Sulfide	H2S	Liquid	48	5.8
Hydroxy-4-Methy-2-Pentanone			76	18.2
Hydroxymethylene Camphor			86	5.2
Hydrozine			68	52.9
Iodo-Iodoheptadecane		Liquid	68	3.5
Iodoheptane			71	4.9
Iodohexane			68	5.4
Idomethane	CH3I		68	7
Iodoctane-2			68	5.8
Idopentane-1			68	5.81
Idopoctane			76	4.6
Idotoluene			68	6.1
Ilmenite (loose)	FeTiO3	Granular		6.0-7.0
Indanol		Liquid	140	7.8
Indonal			60	7.8
Iodine	I2	Liquid	284	11
Iodine	I2			11
Iodine	I2		250	118
Iodine	I2	Solid	71.6	4
Iodiocane				4.6
Iodloctane			24	4.62
Iodo(1)-2-Methylpropane			68	6.5
Iodo(1)-3-Methylbutane			66.2	5.6
Iodo(2)-2-Methylbutane			68	8.19
Iodobenzene	C6H5I	Liquid	68	4.62
Iodobutane-1			266	4.52
Iodododecane-1			68	3.9
Iodoethane			68	7.82
Iodoheptane		Liquid	71	4.92
Iodoheptane-1			71.6	4.9
Iodoheptane-3			71.6	6.4
Iodoheptadecane-1			68	3.5
Iodoheptane		Liquid	68	5.37
Iodoheptane-1			68	5.37
Iodomethane	CH3I	Liquid	68	7
Iodoctane		Liquid	76	4.62
Iodopropane-1			68	7

Dielectric Constants

The Right Connection®

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Iodopropane-2			68	7.87
Iodotoluene		Liquid	68	6.1
Iodotoluene-p			95	4.4
Ionone-(alpha)	Me3C6H6CH:CHCOMe	Liquid	64.4	11
Ionone-(beta)	Me3C6H6CH:CHCOMe	Liquid	68	12
Iron Oxide	FeO			14.2
Iron Pentacarbonyl	Fe(CO)5	Liquid	68	2.6
Isoamyl Acetate			68	5.6
Isoamyl Alcohol		Liquid	74	15.3
Isoamyl Bromide		Liquid	76	6.1
Isoamyl Butyrate		Liquid	68	3.9
Isoamyl Chloracetate		Liquid	68	7.8
Isoamyl Chloride		Liquid	64	6.4
Isoamyl Chloroformate		Liquid	68	7.8
Isoamyl Iodide		Liquid	65	5.6
Isoamyl Propionate		Liquid	68	4.2
Isoamyl Salicylate		Liquid	68	5.4
Isoamyl Valerate			19	3.6
Isoamyl Voleate		Liquid	66	3.6
Isobuthyl Resin				1.4-2.1
Isobutyl Acetate		Liquid	68	5.6
Isobutyl Alcohol		Liquid	-112	31.7
Isobutyl Alcohol		Liquid	32	20.5
Isobutyl Alcohol		Liquid	68	18.7
Isobutyl Benzene		Liquid	62	2.3
Isobutyl Benzoate		Liquid	68	5.9
Isobutyl Benzoate			20	5.9
Isobutyl Bromide			20	4
Isobutyl Bromide		Liquid	68	6.6
Isobutyl Butyrate		Liquid	68	4
Isobutyl Chloride		Liquid	68	7.1
Isobutyl Chloroformate		Liquid	68	9.2
Isobutyl Cyanide		Liquid	74	13.3
Isobutyl Formate		Liquid	66	6.5
Isobutyl Iodide		Liquid	68	5.8
Isobutyl Methyl Ketone				13
Isobutyl Nitrate		Liquid	66	11.9
Isobutyl Pentanoate			66.2	3.8
Isobutyl Rininoleate		Liquid	70	4.7
Isobutyl Valerate		Liquid	66	3.8
Isobutylamine		Liquid	70	4.5
Isobutylene		Granular		2.21
Isobutylene Bromide		Liquid	68	4
Isobutyric Acid	C4H8O2	Liquid	68	2.7
Isobutyric Acid	C4H8O2		122	2.7
Isobutyric Anhydride		Liquid	68	13.9
Isobutyronitrile				23.9-20.8
Isobutyronitrile	Me2CHNC	Liquid	75	20.8
Isocapronitrile		Liquid	68	15.7
Isiodohexadecane		Liquid		3.5
Isonofrol		Liquid	70	3.4
Isooctane				2.1-2.3
Isopentyl Acetate			86	4.63

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Isopentyl Butyrate			68	4
Isopentyl Penanoate			66.2	3.6
Isopentyl Propionate			68	4.2
Isophthalic Acid				1.4
Isoprene	CH ₂ :CMe-CH:CH ₂		77	2.1
Isopropyl Alcohol	MeCH-OH	Liquid	68	18.3
Isopropyl Alcohol	MeCH-OH	Liquid	68	15.7
Isopropyl Benzene	PhCHMe ₂		68	2.4
Isopropyl Ether	C ₆ H ₁₄ O	Liquid	77	3.88
Isopropyl Nitrate		Liquid	66	11.5
Isopropyl(1)-4-Methylbenzene			68	2.24
Isopropylamine	C ₃ H ₉ N	Liquid	68	5.5
Isopropylbenzene	C ₉ H ₁₂	Liquid	68	2.39
Isoquinoline	C ₉ H ₇ N	Liquid	76	10.7
Isoquinoline	C ₉ H ₇ N	Liquid	68	10.7
Isosafrole	C ₆ H ₃ (OOCH ₂)-CH:CH-CH ₃		70	3
Isovaleric Acid	C ₅ H ₁₀ O ₂	Liquid	68	2.64
Jet Fuel (Military-JP4)		Liquid	70	1.7
Kent Wax				6.5-7.5
Kerosene		Liquid	70	1.8
Kerosene		Liquid	77	2
Kiln Feed			2.4	
Kiln Hopper - spent		Catalyst	1.67	
Kynar				2
Lactic Acid	C ₃ H ₆ O ₃	Liquid	66	19.4
Lactic Acid	C ₃ H ₆ O ₃		61	22
Lactic Acid-dl	C ₃ H ₆ O ₃	Liquid	62.6	22
Lactonitrile	Me-CHOH-CN	Liquid	68	38.4
Latex		Liquid	77	1750*
Latex Paint		Liquid	77	700*
Lead	Pb	Powder		6.9
Lead Acetate	Pb(C ₂ H ₃ O ₂) ₂ ·3H ₂ O	Solid	71.6	2.6
Lead Carbonate	PbCO ₃	Solid	59	18.6
Lead Chloride	PbCl ₂	Solid	71.6	4.2
Lead Monoxide		Solid	59	25.9
Lead Nitrate	Pb(NO ₃) ₂	Solid	71.6	37.7
Lead Nomoxide			60	25.9
Lead Oleate	Pb(C ₁₈ H ₃₃ O ₂) ₂	Liquid	62	3.3
Lead Oleate	Pb(C ₁₈ H ₃₃ O ₂) ₂	Solid	71.6	3.27
Lead Oxide	Pb(x)O(y)	Solid		25.9
Lead Sulfate	PbS ₂ O ₆	Solid	71.6	14.3
Lead Sulfide	PbS	Solid	59	17.9
Lead Tetrachloride	PbCl ₄	Liquid	68	2.78
Lime				2.2-2.5
Lime, Reburned				2.2
Lime, Slaked		Powder		2.0-3.5
Limonene	C ₁₀ H ₁₆	Liquid	68	2.3
Limonene-d	C ₁₀ H ₁₆	Liquid	68	2.4
Limonene-dl	C ₁₀ H ₁₆	Liquid	68	2.3
Linde 5A Molecular Sieve, Dry				1.8
Linoleic Acid	C ₁₈ H ₃₂ O ₂	Liquid	68	2.71
Linoleic Acid	C ₁₈ H ₃₂ O ₂		32	2.6-2.9
Lityium Chloride				11.1

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Lonone		Liquid	65	10
LPG				1.6-1.9
Maganese Dioxide				5.0-5.2
Magnesium Chloride	MgCl ₂	Solid		6
Magnesium Oxide	MgO	Solid		9.7
Magnesium Sulfate	MgSO ₄			8.2
Mahogany		Solid		2
Malachite (mean)	Cu ₂ (OH) ₂ CO ₃	Solid		7.2
Maleic Anhydride	C ₄ H ₂ O ₃	Liquid	140	51
Malonic Nitrate		Liquid	97	47
Malonic Nitrile			97	47
Mandelic Acid Nitrile		Liquid	73	18.1
Mandelonitrile	PH-CH(OH)CN	Liquid	73	18.1
Mandelonitrile	PH-CH(OH)CN		73	17
Mandelonitrile-dl			73.4	17.8
Mandenitrile		Liquid	73	17
Manganese Dioxide	MnO ₂	Powder		5.0-5.2
Mannitol	C ₆ H ₁₄ O ₆	Liquid	71	3
Marble		Granular		8
Margarine		Liquid		2.8-3.2
Melamine Formaldehyde	with Alpha Cellulose Filler			7.2-8.2
Melamine Formaldehyde	with Asbestos Filler			6.1-6.7
Melamine Formaldehyde	with Cellulose Filler			4.7-7.0
Melamine Formaldehyde	with Flock Filler			5.0-6.0
Melamine Formaldehyde	with Macerated Fabric Filler			6.5-6.9
Melamine Formaldehyde	Molding Resin			5.5-6.0
Melamine Resin		Granular		4.7
Melamine Resin		Granular		4.7-10.2
Menthenol		Liquid	110	2.1
Menthol	C ₁₀ H ₁₈ O	Liquid	107	3.95
Menthol	C ₁₀ H ₁₈ O	Liquid		3.15
Menthyl Propyl Ketoxime			68	3.3
Mercuric Chloride	HgCl ₂	Solid	71.6	3.2
Mercurous Chloride	HgCl	Solid	71.6	9.4
Mercury	Hg		298	1.00074
Mercury Bichloride				3.2
Mercury Chloride				7.0-14.0
Mercury Diethyl	HgEt ₂	Liquid	68	2.3
Mesityl Oxide	MeCO-CH:CM ₂	Liquid	68	15.4
Mesitylene	C ₆ H ₃ Me ₃	Liquid	68	2.4
Mesitylene	C ₆ H ₃ Me ₃			3.4
Methal Cyanacetate		Liquid	69	29.4
Methane	CH ₄	Gas	32	1
Methane	CH ₄	Liquid	-280	1.7
Methanol	CH ₄ O	Liquid	77	32.63
Methanol	CH ₄ O	Liquid	68	33.62
Methylene Iodide				5.1
Methoxy-4-Methylphenol		Liquid	60	11
Methoxybenzaldehyde-p			71.6	22.3
Methoxybenzene		Liquid	76	4.33
Methoxybenzene		Liquid	158	3.9
Methoxyethanol-2			86	16
Methoxyethyl Acetate-2			68	8.25

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Methoxyethyl Stearate		Liquid	140	3.39
Methoxyphenol		Liquid	82	11
Methoxyphenol-o			77	12
Methoxytoluene		Liquid	68	3.5
Methoxytoluene-m			68	3.5
Methoxytoluene-o			68	3.5
Methylamine			70	10.5
Methylaniline				
Methoxytoluene-p			68	4
Methyl 5 Ketocyclohexylene			68	24
Methyl Acetate	MeCOOMe	Liquid	68	7.3
Methyl Acetate	MeCOOMe	Liquid	77	6.68
Methyl Acetopheononoaxalate		Liquid	64	2.8
Methyl Alcohol	CH3OH	Liquid	-112	56.6
Methyl Alcohol	CH3OH	Liquid	32	37.5
Methyl Alcohol	CH3OH	Liquid	68	33.1
Methyl Benzoate	C8H8O3	Liquid	68	6.59
Methyl Benzylamine		Liquid	65	4.4
Methyl Butane			68	1.8
Methyl Butyl Ketone		Liquid	62	12.4
Methyl Butyrate	C5H10O2	Liquid	68	5.6
Methyl Chloride			25	12.9
Methyl Chloroacetate		Liquid	68	12.9
Methyl Cyanoacetate			149	17.57
Methyl Cyanoacetate			69	29.4
Methyl Cyclohexanone		Liquid	192	18
Methyl Cyclohexonal		Liquid	68	13
Methyl Cyclopentane	C6H12	Liquid	68	1.985
Methyl Ether	MeOMe	Liquid	77	5.02
Methyl Ether Ketone		Liquid	72	7
Methyl Ether Ketoxime		Liquid	68	3.4
Methyl Ethyl Ketone	MeCOEt	Liquid	72	18.4
Methyl Ethyl Ketoxime		Liquid	68	3.4
Methyl Formate	HCOOMe	Liquid	68	8.5
Methyl Heptanol		Liquid	68	5.25
Methyl Hexane	Me(CH2)5Me	Liquid	68	1.919
Methyl Iodide	CH3I	Liquid	68	7.1
Methyl Kexyl Ketone		Liquid	62	10.7
Methyl Methacrylate	CH2:CMMe-COOMe		68	2.9
Methyl Methacrylate	CH2:CMMe-COOMe	Power		2.6
Methyl Methacrylate (cast)	CH2:CMMe-COOMe			2.7-3.2
Methyl Nitrobenzoate		Liquid	80	27
Methyl o-Methoxybenzoate		Liquid	70	7.8
Methyl o-Nitrobenzoate			77	28
Methyl Octane		Liquid	69	30
Methyl Oleate			68	3.211
Methyl p-Methoxybenzoate			91.4	4.3
Methyl P-Toluate		Liquid	91	4.3
Methyl Pentanoate			66.2	4.3
Methyl Propionate	C4H8O2	Liquid	66.2	5.5
Methyl Propyl Ketone	Me-CO-Pr	Liquid	58	16.8
Methyl Salicylate	C8H8O3	Liquid	68	9
Methyl Salicylate	C8H8O3	Liquid	86	9.41

Dielectric Constants

The Right Connection®

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Methyl Thiocyanate	CH ₃ CNS	Liquid	68	35.9
Methyl Thiocyanate	CH ₃ CNS	Liquid	66.2	4.3
Methyl Valorate		Liquid	66	4.3
Methyl(1)-1-Phenylhydrazine			66.2	7.3
Methyl(2)-1,2-Butadiene			77	2.1
Methyl(2)-1-Butanol		Liquid	77	14.7
Methyl(2)-1-Butene	C ₅ H ₁₀	Liquid	68	2.197
Methyl(2)-1-Propanol		Liquid	77	17.93
Methyl(2)-2-Butanol	C ₅ H ₁₂ O	Liquid	77	5.82
Methyl(2)-2-Heptanol			77	2.46
Methyl(2)-2-Propanol		Liquid	86	10.9
Methyl(2)-3-Heptanol			140	3.75
Methyl(2)-4-Heptanol			140	3.65
Methyl(3)-1-Butanol	C ₅ H ₁₂ O	Liquid	77	14.7
Methyl(3)-1-Butene		Gas	212	1.002
Methyl(3)-3-Heptanol			140	2.89
Methyl(3)-4-Heptanol			68	7.4
Methyl(4)-2-Pentanone			104	11.78
Methyl(4)-3-Heptanol			131	4.62
Methyl(4)-3-Penten-2-One			68	15.1
Methyl(4)-4-Heptanol			140	3.27
Methyl(n)-2-Pyrrolidinone			77	32
Methyl-1-Cyclopentanol		Liquid	95	6.9
Methyl-1-Cyclopentanol			35	6.9
Methyl-2, 4-Pentondiol		Liquid	86	24.4
Methyl-2-Pentoene		Liquid	68	13.1
Methyl-5 Ketocyclohexylene		Liquid	68	24
Methylacetamide-n			140	138.6
Methylal		Liquid	68	2.7
Methylamine	CH ₅ N	Liquid	77	9.4
Methylamine	CH ₅ N	Liquid	64.4	10
Methylaniline	C ₆ H ₅ NHMe	Liquid	68	6
Methylaniline-n	C ₇ H ₉ N	Liquid	71.6	5.97
Methylbutane-2	C ₅ H ₁₂	Liquid	68	1.845
Methylbutyl Acetate-2			86	4.63
Methylbutyric Acid-3			68	2.64
Methylbutyronitrile-3			428	18
Methylcyclohexane	C ₆ H ₁₁ Me	Liquid	77	2.07
Methylcyclohexanol-cis-2				13.3+
Methylcyclohexanol-cis-3			68	16.47
Methylcyclohexanol-cis-4				13.3+
Methylcyclohexanol-trans-3				8.05
Methylcyclohexanone-2			68	14
Methylcyclohexanone-3			68	12
Methylcyclohexanone-4			68	12
Methylene Aceloacetate			70	7.8
Methylene Malonate			72	6.6
Methylene Iodide	CH ₂ I ₂	Liquid	70	5.1
Mythelene Phenylacetate			68	5
Methylformamide-n			77	182.4
Methylhexane-2			68	1.92
Methylhexane-3			68	1.93
Methylisocyanate			69	29.4

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Methylnaphthalene-1			68	2.7
Methyloctane			69	30
Methyloctane-2			68	1.97
Methyloctane-4			68	1.97
Methylomine			21	10.5
Methylpentane-2			68	1.88
Methylpentane-3			68	1.895
Methylpentanenitrile-4			71.6	15.5
Methylphenyl Hydrazine		Liquid	66	7.3
Methylpropanenitrile-2				20.2
Methylpropionamide-n			104	151
Methylpropionic Acid-2			104	2.73
Methylpropyl Acetate-2			68	5.29
Methylpropyl Formate-2			66.2	6.41
Methylpropylamine-2			69.8	4.43
Methylpyridine-2	C6H7N	Liquid	68	9.8
Methyltetrahydrofuran-2			50	6.63
Metnoxy-4-Methyl Phenol				11
Mica	3Al2O3-K2O-6SiO2-2H2O	Granular		7
Mica	3Al2O3-K2O-6SiO2-2H2O	Granular		4.5-7.5
Mica	3Al2O3-K2O-6SiO2-2H2O			2.6-3.2
Mica (Glass Bonded)				6.9-9.2
Mica, White				4.5-9.6
Micanite				1.8-2.6
Milk Feed (high density)			4.5	
Milk Feed - Pea size to 1" Dia.			2.6	
Milk Feed - 1" to 1-1/4" Dia.			1.9	
Mills (Dry Powder)		Powder		1.8
Mineral Oil		Liquid	80	2.1
Molasses		Liquid	50	300.0*
Molasses		Liquid	122	5000.0*
Monomyristin		Liquid	158	6.1
Monopalmitin	C19H38O4	Liquid	152.6	5.34
Monostearin	C17H35COOCH2-CHOH-CH2OH	Liquid	170	4.87
Morpholine	C4H9NO	Liquid	77	7.33
Mrthoxybenzalsehyde-p			479	10.4
N-Butyl Acetate			18.9	5.1
N-Butal Alcohol			18.9	7.8
N-Butal Bromide			20	6.6
N-Butal Formate			158.2	2.4
N-Butal Iodide			25	6.1
N-Butyno Acid			20	2.9
Naphthalene	C10H8	Solid	71.6	2.52
Naphthalene	C10H8	Liquid	185	2.54
Naphthonitrile	C10H7CN	Liquid	70	6.4
Naphthonitrile-1			158	16
Naphthonitrile-2			158	17
Napthtyl Ethyl Ether	C10H7(OEt)	Liquid	67	3.2
Neon	Ne	Gas	68	1.000127
Neoprene	(...CH2-CH:C(Cl)CH2)x			6.0-9.0
Nitroaniline-o	C6H6N2O2	Liquid	194	34.5
Nitroaniline-p	C6H6N2O2	Liquid	320	56.3
Nitroanisole	C6H4(OMe)NO2	Liquid	68	24

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Nitrobenzene	C6H5NO2		68	35.7
Nitrobenzene	C6H5NO2	Liquid	77	34.82
Nitrobenzene	C6H5NO2	Liquid	176	26.3
Nitrobenzol Doxime		Liquid	248	48.1
Nitrobenzyl Alcohol		Liquid	68	22
Nitrobenzyl Alcohol-m			68	22
Nitrocellulose				6.2-7.5
Nitroethane	C2H5NO2	Liquid	68	19.7
Nitroethane	C2H5NO2	Liquid	95	27.4
Nitrogen	N2	Liquid	336	1.454
Nitrogen	N2		68	1.00058
Nitroglycerin	C3H5(ONO2)3	Liquid	68	19
Nitromethane	CH3NO2			22.7-39.4
Nitromethane	CH3NO2	Liquid	68	39.4
Nitromethane	CH3NO2	Liquid	95	35.1
Nitrophenol-o	C6H5NO3	Liquid	122	17.3
Nitropropane-1			95	22.7
Nitropropane-2			86	25.52
Nitrosodimethylamine	(CH3)2N-NO	Liquid	68	54
Nitrosodimethylamine-n			68	53
Nitrosyl Bromide	NOBr	Liquid	59	13
Nitrosyl Bromide	NOBr		4	13
Nitrosyl Chloride	NOCl	Liquid	53.6	18
Nitrosyl Chloride	NOCl		10	18
Nitrotoluene	Me-C6H4-NO2	Liquid	68	25
Nitrotoluene-m	C7H7NO2	Liquid	136.4	21.9
Nitrotoluene-o	C7H7NO2	Liquid	136.4	21.6
Nitrotoluene-o	C7H7NO2	Liquid	86	27.4
Nitrotoluene-p	C7H7NO2	Liquid	138.2	22.2
Nitrous Oxide	N2O	Liquid	32	1.6
Nonane	C9H2O	Liquid	68	1.96
Nonane	C9H2O		230	1.85
Nonane-n	C9H20	Liquid	68	1.972
Nylon		Solid		4.0-5.0
Nylon Pellets		Solid		1.1-3.0
Nylon Resin				3.0-5.0
O-Chlorophenol			18.9	8.2
O-Cresol			23.9	5.8
O-Dichlorobenzene			20	7.5
O-Dichlororobenzane			25	7.5
Octadecanol	Me(CH2)16CH2OH	Liquid	136	3.42
Octamethylcyclotetrasiloxane			68	2.4
Octamethyltrisiloxane	C6H18OSi2	Liquid	68	2.3
Octane	C8H18		24	1.061
Octane	C8H18	Liquid	68	1.96
Octane	C8H18	Liquid	76	2.061
Octane-n	C8H18	Liquid	68	1.948
Octanenitrile			77	13.9
Octanol-1	C6H18O	Liquid	68	10.34
Octanol-2			104	6.52
Octanone		Liquid	68	10.3
Octanone-2			212	7.42
Octene	C8H16		76	2.1

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Octene-1			68	2.084
Octoic Acid	Me(CH ₂) ₆ COOH	Liquid	68	2.46
Octyl Alcohol	C ₈ H ₁₇ OH	Liquid	64	3.4
Octyl Iodide	C ₈ H ₁₇ I	Liquid	68	4.9
Octylene	C ₈ H ₁₆	Liquid	65	4.1
Odooctane-1			77	4.6
Oil, Almond		Liquid	68	2.8
Oil, Castor	See Castor Oil			
Oil, Cottonseed		Liquid	57	3.1
Oil, Grapeseed		Liquid	61	2.9
Oil, Heavy				3
Oil, Heavy, C				2.6
Oil, Lemon		Liquid	70	2.3
Oil, Linseed		Liquid	55	3.4
Oil, Mineral	See Mineral Oil			
Oil, Olive		Liquid	68	3.1
Oil, Paraffin		Liquid	68	2.2-4.7
Oil, Peanut		Liquid	52	3
Oil, Petroleum		Liquid	68	2.1
Oil, Pyranol		Liquid	68	5.3
Oil, Sesame		Liquid	55	3
Oil, Silicone				2.2-2.9
Oil, Sperm		Liquid	68	3.2
Oil, Turpentine		Liquid	68	2.2
Oil, Transformer		Liquid	68	2.2
Oil, Transmission		Liquid	80	2.2
Oil, Vegetable		Liquid		2.5-3.5
Olefin	C _n H _(2n)			3.2
Oleic Acid	C ₁₈ H ₃₄ O ₂	Liquid	68	2.46
Oleic Acid	C ₁₈ H ₃₄ O ₂	Liquid	140	2.45
Oleric Acid				2.4-2.5
Opal Wax				3.1
Organic Cold Molding Compound				6
Oxalyl Chloride	COCl-COCl	Liquid	69.8	3.5
Oxygen	O ₂	Liquid	-316	1.507
Oxygen	O ₂	Liquid	68	1.000494
P-Crestol			23.9	5.6
P-Cymene			7.2	2.3
P-Dibromobenzene			88	4.5
P-Dichlorobenzene			20	2.88
Paint		Liquid		5.0-8.0
Palmitic Acid	C ₁₆ H ₃₂ O ₂	Liquid	159.8	2.3
Paper		Solid		2
Paper		Solid		1.8-2.5
Paper (dry)		Solid		2.0-2.6
Paper (oil impregnated)		Solid		3.6
Paraffin	C _(n) H _(2n+2)	Solid		1.9-2.5
Paraffin	C _(n) H _(2n+2)	Solid		2.2
Paraffin Chloride				2.0-2.3
Paraffin Oil				4.6-4.8
Paraffin Wax		Viscous S		2.2
Paraldehyde	C ₆ H ₁₂ O ₃	Liquid	68	14.5
Paraldehyde	C ₆ H ₁₂ O ₃	Liquid	77	13.9

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Parawax				2.3
Penanthiene			20	2.8
Penenthrene			110	2.72
Penethrene			20	2.8
Pentachloroethane	CCl3CHCl2	Liquid	60	3.7
Pentadiene-1,3	C5H5	Liquid	77	2.32
Pentadiene-cis-1,2			77	2.32
Pentanaldehyde			62.6	10.1
Pentane	C5H12	Liquid	68	1.8
Pentane-n	C5H12	Liquid	68	1.844
Pentanedione-2,4	C5H2O2	Liquid	68	25.7
Pentanenitrile			69.8	17.4
Pentanethiol-1			122	4.23
Pentanoic Acid	C5H10O2		68	2.66
Pentanol	C5H12O	Liquid	77	13.9
Pentanol-1	C5H12O	Liquid	77	13.9
Pentanol-2			71.6	13.82
Pentanol-3	C5H10O	Liquid	68	17
Pentanone-2	C5H10O	Liquid	68	15.4
Pentanone-3			68	17
Pentene-1	C5H10	Liquid	68	2.1
Pentyl Acetate	MeCOOC5H11	Liquid	68	4.75
Pentyl Formate			68	6.5
Pentyl Nitrate			64.4	9
Pentylamine	C5H11NH2	Liquid	71.6	4.5
Perlite				1.3-1.4
Petroleum		Liquid		1.8-2.2
Petroleum Jelly		Viscous S		2.1
Phenanthrene	C14H10	Solid	71.6	2.8
Phenanthrone	C16H10O	Solid		2.8
Phenathiene			68	2.8
Phenenthrene	C14H10	Liquid	230	2.72
Phenetidine	NH2-C6H4-OEt	Liquid	70	7.3
Phenetole	Ph-O-Et	Liquid	70	4.5
Phenol	C6H6O	Liquid	118	9.9
Phenol	C6H6O	Liquid	104	15
Phenol	C6H6O	Solid	50	4.3
Phenol Ether	Ph--O--R	Liquid	85	9.8
Phenol Formaldehyde Resin				4.5-5.0
Phenol Formaldehyde Resin	with Asbestos Filler			5.0-7.0
Phenol Formaldehyde Resin	with Glass Fiber Filter			6.6-7.0
Phenol Formaldehyde Resin	with Mica Filler			4.2-5.2
Phenol Formaldehyde Resin	with Mineral Filler (cast)			9.0-15.0
Phenol Formaldehyde Resin	with Sisal Fiber			3.0-5.0
Phenol Formaldehyde Resin	with Flour Filler			4.0-7.0
Phenol Resin				4.9
Phenol Resin, Cumulated				4.6-5.5
Phenolic Resin				4.0-12.0
Phenolic Resin Fabric		Solid		5.5
Phenolic, wood-filled		Granular		5
Phenoxyacetylene		Liquid	76	4.76
Phenylacetonitrile		Liquid	80	18
Phenylacetaldehyde		Liquid	68	4.8

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Phentidine			70	7.3
Phenyl Acetate	C8H8O3	Liquid	68	6.9
Phenyl Ethanol	PhCH2CH2OH	Liquid	68	13
Phenyl Ether	C12H10O	Liquid	86	3.65
Phenyl Ethyl Acetate		Liquid	58	4.5
Phenyl Ethylene	Ph-CH:CH2		77	2.4
Phenyl Isocyanate	C7H5NO	Liquid	68	8.8
Phenyl Isothiocyanate	C7H5NS	Liquid	68	10.7
Phenyl Isolicylate		Liquid	122	6.3
Phenyl Salicylate	C6H4(OH)COOPh	Solid	122	6.3
Phenyl Urethane				2.7
Phenyl-1-Propane		Liquid	68	2.7
Phenyl-1-Propane			68	1.7
Phenylacetaldehyde	PhCH2CHO	Liquid	68	4.8
Phenylacetic		Liquid	68	3
Phenylacetonitrile		Liquid	80	18
Phenylacetonitrile			453	8.5
Phenylacetylene	PhC:CH	Liquid	68	3
Phenylethanol	PhCH2CH2OH		68	13
Phenylethanol-1			194	7.6
Phenylhydrazine	C6H8N2	Liquid	73.4	7.2
Phenylpropene-1			68	2.7
Phenylpropene-2			68	2.3
Phenylpropene-3			68	2.6
Pheolic Resin Paper				5
Phosgene	COCl2	Liquid	32	4.7
Phosgene	COCl2	Liquid	71.6	4.3
Phosphine	PH3	Liquid	-76	2.5
Phosphorus	P	Liquid	93.2	4.1
Phosphorus	P	Solid		3.6
Phosphorus Oxychloride	POCl3	Liquid	71.6	14
Phosphorus Pentachloride	PCl4	Liquid	320	2.8
Phosphorus Tribromide	PBr3		68	3.9
Phosphorus Trichloride	PCl3		77	3.4
Phosphorus Trichloride	PCl3	Liquid	64.4	3.7
Phosphorus, Red	P, P4	Solid	71.6	4.1
Phosphorus, Yellow	P, P4	Solid	71.6	3.6
Phosphoryl Chloride	POCl3	Liquid	71.6	13
Phthalic Acid	C6H4(COOH)2			5.1-6.3
Phthalide	C6H4-CO-O-CH2		74	36
Phthalide	C6H4-CO-O-CH2	Liquid	166	36
Pinacolin	Me-CO-CMe3	Liquid	62	12.8
Pinacone	Me2C(OH)	Liquid	75	7.4
Pinane	C10H18	Liquid	68	2.7
Pine Tree Resine, Powder		Powder		1.5-1.8
Pinene	C10H16		68	2.7
Pinene-d	C10H16	Liquid	77	2.64
Pinene-dl-(alpha)			77	2.64
Pinene-l-(beta)	C10H16	Liquid	68	2.76
Piperidine	C5H11N	Liquid	71.6	5.8
Plaster				2.5-6.0
Plastic Grain		Powder		65-75
Plastic Pellets		Solid		1.1-3.2

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Plastic Sulphur, Unground				1.5
Platinum Catalyst				6.5-7.5
Polyacetal				3.6-3.7
Polyacetal Resin				2.6-3.7
Polyacrylic Ester				3.5
Polyamide				2.5-2.6
Polyamide Resin				2.5-2.6
Polybutylene				2.2-2.3
Polycaprolactam				2.0-2.5
Polycarbonate				2.9-3.0
Polycarbonate Resin				2.9-3.0
Polychylene Porcelain		Solid		5 to 7
Polyester Resin				2.8-4.5
Polyester Resin	Glass Fiber Filled			4.0-4.5
Polyester Resin	Rigid Cast			2.8-4.1
Polyester Resin (Flexible)				4.1-5.2
Polyether Chloride				2.9
Polyether Resin				2.8-8.1
Polyether Resin, Unsaturated				2.8-5.2
Polyethylene		Solid		4.0-5.0
Polyethylene				2.2-2.4
Polyethylene Chips (loose)		Solid		1.2-1.3
Polyethylene Pellet		Solid		1.7-1.8
Polyethylene Pellet				1.5
Polyethylene Resin				2.2-2.6
Polymide				2.8
Polypropylene		Solid		1.5
Polypropylene Pellet		Solid		1.5-1.8
Polypropylene Powder		Powder		1.25
Polypropylene Resin				2-2.2
Polystrene Resin				2.2-2.6
Polystyrene Terephthalate				2.9-3.0
Polystyrol				2.0-2.6
Polysulphonic Acid				2.8
Polytetra Fluoroethylene	(CF ₂ -CF ₂) _n			2
Polythene Chips		Solid		1.5
Polyvinyl Alcohol	(CH ₂ :CHOH) _n			1.9-2.0
Polyvinyl Chloride	...CH ₂ -CHCl-CH ₂ -CHCl			3.4
Polyvinyl Chloride Resin				5.8-6.8
Porcelain		Solid		5.0-7.0
Porcelain		Granular		5.5
Porcelain with Zircon				7.1-10.5
Potassium Aluminum Sufate	KAl(SO ₄) ₂ -12H ₂ O	Solid	71.6	3.8
Potassium Carbonate	K ₂ CO ₂	Solid	59	5.6
Potassium Chlorate	KClO ₃	Solid	71.6	5.1
Potassium Chloride	KCl	Solid	71.6	5.03
Potassium Chloride	KCl			4.6
Potassium Chloronate		Solid		7.3
Potassium Chromate	K ₃ CrO ₄	Solid	71.6	7.3
Potassium Iodide	KI	Solid	71.6	5.6
Potassium Nitrate	KNO ₃	Solid	71.6	5
Potassium Sulfate	K ₂ SO ₄	Solid	71.6	5.9
Press Board		Solid		2.0-2.6

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Pressed Board				2.0-2.6
Propane	C3H8	Liquid	32	1.61
Propanediamine-1,2				10.2
Propanediamine-1,3				9.55
Propanediol	C3H8O2		68	32
Propanediol-1,2	C3H8O2	Liquid	68	32
Propanediol-1,3	C3H8O2	Liquid	68	35
Propanol-1	C3H8O	Liquid	77	20.1
Propanol-2	C3H8O	Liquid	77	18.3
Propen(2)-1-ol	C3H6O	Liquid	59	21.6
Propene	C3H6	Liquid	68	1.87
Propionaldehyde	MeCH2CHO	Liquid	62.6	18.5
Propionic Acid	C2H6O2	Liquid	66	3.1
Propionic Acid	C2H6O2		58	3.3
Propionic Acid	C2H6O2	Liquid	104	3.44
Propionic Anhydride	(MeCH2CO)2O	Liquid	60	18
Propionitrile	C3H5N	Liquid	68	27.7
Propionitrile	C3H5N	Liquid	122	24.2
Propylamine	C3H9N	Liquid	68	5.31
Propyl Acetate	MeCOOPr	Liquid	68	6.3
Propyl Alcohol	C3H8O	Liquid	68	21.8
Propyl Benzene	PhPr	Liquid	68	2.4
Propyl Benzene	PhPr	Liquid	86	2.351
Propyl Bromide	C3H7Br	Liquid	68	7.2
Propyl Butyrate	PrCOOPr	Liquid	68	4.3
Propyl Chloroformate		Liquid	68	11.2
Propyl Ether	C6H14O	Liquid	78.8	3.3
Propyl Formate	HCOOPr	Liquid	66.2	7.72
Propyl Nitrate	C3H7NO3	Liquid	64	14.2
Propyl Pentoate			66.2	4
Propyl Propionate		Liquid	68	4.7
Propyl Valerate		Liquid	65	4
Propylene		Liquid		11.9
Propylene Carbonate				64.4
Propyn(2)-1-ol			68	24.5
Pseudocumene	C6H3Me3	Liquid	60	2.4
Pulegone	C10H16O	Liquid	68	9.5
Pulegone	C10H16O		66	9.7
Pulezone			66	9.7
PVC, Powder		Powder		1.4
Pyrazine	CH-CH-N:CH-CH:N	Solid	129.2	2.8
Pyrex		Solid		4.8
Pyrex Glass				4.3-5.0
Pyridine	C5H5N	Liquid	68	12.5
Pyridine	C5H5N	Liquid	241	9.4
Pyroceram				3.5-4.5
Pyrrole	C4H5N	Liquid	64.4	7.48
Quartz	SiO2	Solid		4.2-4.4
Quartz	SiO2	Granular		4.5
Quartz (para) Optic Axis	SiO2	Solid	71.6	4.27
Quartz (perp) Optic Axis	SiO2	Solid	71.6	4.34
Quartz, Fused	SiO2	Granular		3.8
Quinoline	C9H7N	Liquid	77	9

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Quinoline	C8H7N	Liquid	-292	2.6
Reactor Hopper - refrigerated		Catalyst	2.33	
Reburned Lime	See Lime, Reburned			
Refractory (cast)				6.7
Refractory (for casting)				1.8-2.1
Resin		Liquid		2.4
Resorcinol	C6H4(OH)2	Solid	71.6	3.2
Rice		Solid		3.5
Rice				3.0-8.0
Rice Bran				1.4-2.0
Rock Powdered Rutile	loose	Powder		6.67
Rock Powdered Rutile	packed	Powder		7.5
Rocksalt		Solid		6
Rouge (jewelers)				1.5-1.6
Rouge (loose)		Powder		1.5
Rouge (packed)		Powder		1.67
Rubber	(C5H8)x	Solid		3
Rubber Cement				2.7-2.9
Rubber Chloride				2.1-2.7
Rubber, chlorinated				3
Rubber, crepe		Granular		2.4
Rubber, hard				2.8
Rubber, isomerized				2.4-3.7
Rubber, raw				2.1-2.7
Rubber, sulphurized				2.5-4.6
Rubber, vulcanized		Granular		2.0-3.5
Ruby	Al2O3			11.3
Ruby (para) Optic Axis	Al2O3	Solid	71.6	11.28
Ruby (perp) Optic Axis	Al2O3	Solid	71.6	13.27
Rutile	TiO2			6.6-8.6
Rutile (para) Optic Axis	TiO2	Solid	71.6	170
Rutile (perp) Optic Axis	TiO2	Solid	71.6	86
Rutile Group	TiO2	Granular		80
Safrole	C6H3(OCH2O)-CH2-CH:CH2	Liquid	70	3.1
Salicyladehyde	C7H6O2	Liquid	68	13.9
Salt		Granular		3.0-15.0
Sand		Solid		3.0-5.0
Sand (15% Water)		Granular		9
Sand (dry)		Granular		2.5
Sand (dry)		Granular		5
Sand (Silicon Dioxide)		Solid		3.0-5.0
Sand - Reclaimed Foundry	loose	Granular		4.8
Sand - Reclaimed Foundry	packed	Granular		4.8
Sand, Emery		Granular		16.5
Sandstone		Granular		10
Santowax		Liquid		2.29
Santowax			70	2.3
Scots Pine 15% Water		Solid		8.2
Sealing Wax		Viscous S		3
Selenium	Se			6.1-7.4
Selenium	Se			11
Selenium	Se	Solid	71.6	6.6
Selenium	Se	Liquid	482	5.4

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Selevium			482	5.4
Sesame				1.8-2.0
Sesame Powder		Powder		1.8-2.0
Shell Molding Sand		Granular		1.2
Shellac		Solid		3.5
Shellac		Viscous S		2.9
Shellac				2.0-3.8
Silica Aluminate				2
Silica Sand		Granular		2.5-3.5
Silicon	Si			2.4
Silicon	Si			11.0-12.0
Silicon (loose)	Si	Powder		11.1
Silicon (packed)	Si	Powder		12
Silicon Resin				3.5-5.0
Silicon Tetrachloride	SiCl ₄	Liquid	60	2.4
Silicon Varnish		Liquid		2.8-3.3
Silicone		Liquid		2.7
Silicone Molding Compound	glass fiber filled			3.7
Silicone Oil	see Oil, Silicone			
Silicone Resin		Liquid		3.5-5.0
Silicone Rubber				3.2-9.8
Silicone Varnish				2.8-3.3
Silk				1.3-2.0
Silk				2.5-3.5
Silver Bromide	AgBr	Solid	71.6	12.2
Silver Chloride	AgCl	Solid	71.6	11.2
Silver Cyanide	AgCN	Solid	71.6	5.6
Slaked Lime	see Lime, Slaked			
Slate		Solid		6.0-7.5
Smithsonite	ZnCO ₃			9.3
Smithsonite (para) Optical Axis	ZnCO ₃	Solid	71.6	9.4
Smithsonite (perp) Optical Axis	ZnCO ₃	Solid	71.6	9.3
Soap Powder		Powder		1.25-1.7
Sorbitol			80	33.5
Soda (Sodium Carbonate)	Na ₂ CO ₃	Powder		7.5
Sodium Sulfide	Na ₂ S			5
Sodium Carbonate	Na ₂ CO ₃			5.3-8.4
Sodium Carbonate (10H ₂ O)	Na ₂ CO ₃ ·(n)H ₂ O	Solid	71.6	5.3
Sodium Carbonate (anhyd)	Na ₂ CO ₃ ·(n)H ₂ O	Solid	71.6	8.4
Sodium Chloride	NaCl	Solid	71.6	6.12
Sodium Chlorite				6.1
Sodium Cyanide	NaCn			7.55
Sodium Dichromate	Na ₂ Cr ₂ O ₇ ·2H ₂ O			2.9
Sodium Hypochlorite				6.7
Sodium Nitrate	NaNO ₃	Solid	71.6	5.2
Sodium Oleate	NaC ₁₈ H ₃₂ O ₃	Liquid	68	2.7
Sodium Oleate	NaC ₁₈ H ₃₂ O ₃	Solid	71.6	2.75
Sodium Perchlorate	NaClO ₄	Solid	71.6	5.4
Sodium Phosphate				1.6-1.9
Sodium Sulfide				5
Soil (dry)		Granular		
Soil (natural)		Granular		10
Sorbitol	C ₆ H ₁₄ O ₆ ·(1/2)H ₂ O	Liquid	176	33.5

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Soybean		Solid		1.8-2.0
Soybean, cake				2.7-2.8
Spermaceti		Liquid		2.2
Stannic Chloride	SnCl ₄	Liquid	72	3.2
Starch	(C ₆ H ₁₀ O ₅) _x			3.0-5.0
Starch, paste	(C ₆ H ₁₀ O ₅) _x			1.7-1.8
Stearic Acid	C ₁₈ H ₃₆ O ₂	Liquid	71	2.3
Stearic Acid	C ₁₈ H ₃₆ O ₂	Liquid	158	2.29
Stearic Acid	C ₁₈ H ₃₆ O ₂	Liquid	212	2.26
Stearin	C ₃ H ₅ (C ₁₇ H ₃₅ COO) ₃			2.3
Steatite	3MgO-4SiO ₂ -H ₂ O	Powder		5.3-7.5
Steatite Group	3MgO-4SiO ₂ -H ₂ O	Powder		6
Styrene	Ph-CH:CH ₂	Liquid	167	2.32
Styrene	Ph-CH:CH ₂	Powder		2.55
Styrene (modified)				2.4-3.8
Styrene (phenylethene)	C ₈ H ₈	Liquid	77	2.32
Styrene Dichloride				2.6
Styrene Resin				2.3-3.4
Styrol Resin				2.4
Succinamide	(NH ₂ COCH ₂) ₂	Liquid	72	2.9
Succinic Acid	HOOC-CH ₂ -CH ₂ -COOH	Liquid	78	2.4
Succinonitrile	C ₄ H ₄ N ₂	Solid	134.6	56.5
Sucrose	C ₁₂ H ₂₂ O ₁₁			3.3
Sucrose (mean)	C ₁₂ H ₂₂ O ₁₁	Solid		3.32
Sugar	C(n)H(2n)O(n)	Solid		3
Sugar, granulated	C(n)H(2n)O(n)	Granular		1.5-2.2
Sulfur	S	Liquid	448	3.48
Sulfur	S	Powder		1.5-1.8
Sulfur (mean)	S	Solid		4
Sulfur Dioxide	SO ₂	Liquid	-4	17.6
Sulfur Dioxide	SO ₂	Liquid	32	15.6
Sulfur Monochloride	S ₂ Cl ₂	Liquid	59	4.79
Sulfur Monoxide	SO	Liquid		4.8
Sulfur Trioxide	SO ₃	Liquid	64.4	3.11
Sulfur Trioxide	SO ₃	Liquid	70	3.6
Sulfuric Acid	H ₂ SO ₄	Liquid	68	84
Sulfuric Oxychloride		Liquid	72	9.2
Sulfurous Oxychloride		Liquid	72	9.1
Sulfuryl Chloride	SO ₂ Cl ₂	Liquid	72	10
Sulphur		Viscous S	450	3.4
Sulphur, liquid		Liquid		3.5
Sulphur, powder		Powder		3.6
Sylene-m				2.4
Sylvin				4.9
Syrup				50-80
Syrup Wax				2.5-2.9
Tantalum Oxide	Ta ₂ O ₅	Solid		11.6
Tartaric Acid	C ₄ H ₆ O ₆	Liquid	68	6
Tartaric Acid	C ₄ H ₆ O ₆	Liquid	14	35.9
Tartaric Acid	C ₄ H ₆ O ₆	Liquid		8.0-36
Teflon	(CF ₂ -CF ₂) _x	Solid		2
Teflon (4F)	(CF ₂ -CF ₂) _x			2

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Teflon, FEP				2.1
Teflon, PCTFE				2.3-2.8
Teflon, PTFE				2
Tepineol			68	2.8
Terephthalic Acid	C ₆ H ₄ (COOH) ₂	Powder		1.5-1.7
Terpinene	C ₁₀ H ₁₆	Liquid	70	2.7
Terpineol	C ₁₀ H ₁₈ O	Liquid	68	2.8
Tertathiomethylmethane			158	2.82
Tetrabromomethane	CHBr ₂ -CHBr ₂	Liquid	68	7.1
Tetrabromoethane-1,1,2,3	C ₂ H ₂ Br ₄	Liquid	71.6	7
Tetrachloroethane-1,1,2,2	CH ₂ Cl ₂ -CH ₂ Cl ₂	Liquid	68	8.2
Tetrachloroethylene	CCl ₂ :CCl ₂	Liquid	70	2.5
Tetrachloroethylene	CCl ₂ :CCl ₂	Liquid	77	2.3
Tetradecamethylhexosiloxane		Liquid	68	2.5
Tetradecamethylcyclotrisiloxane		Liquid	68	2.7
Tetradecanol		Liquid	100	4.72
Tetradecanol-1			118.4	4.4
Tetraethyl Amylenetetraarboxylate			66	4.4
Tetraethyl hexane-1-phenyl tetracarboxylate		Liquid	68	5.9
Tetraethyl pentane diphenyl tetrocarboxylate		Liquid	68	2.7
Tetraethyl propane tetracarboxylate		Liquid	66	5.2
Tetraethyl propylene tetracarboxylate		Liquid	66	6
Tetraethyl Silicate		Liquid	66	5.2
Tetrafluorethylene	C ₈ H ₂₀ O ₄ Si	Liquid	68	4.1
Tetrahydro-2-furanmethanol		Powder		2.12
Tetrahydro-B-Naphthol			73.4	6.24
Tetrahydrofuran	C ₆ H ₅ -OH-(CH ₂) ₄	Liquid	68	11
Tetrahydrofuran	C ₄ H ₈ O		-94	11.6
Tetrahydrofuran	C ₄ H ₈ O	Liquid	68	7.54
Tetrahydropyran	C ₄ H ₈ O	Liquid	86	7.25
Tetrahydrothiophene Oxide			77	5.61
Tetramethylurea-1,1,2,2			86	42.5
Tetranitromethane				23.06
Tetranitromethane	CN ₂ O ₈		68	2.2
Tetratriocontadiene	CN ₂ O ₈	Liquid	77	2.52
Tetrobromoethane		Liquid	70	2.82
Tetronitrimethane	CHBr ₂ -CHBr ₂	Liquid	68	7.1
Thallium Chloride		Liquid	68	2.2
Thinner	TiCl	Solid	71.6	46.9
Thioacetic Acid		Liquid		3.7
Thionyl Bromide	MeCOSH	Liquid	68	13
Thionyl Chloride	SOBr ₂	Liquid	68	9.06
Thiophene	SOCl ₂	Liquid	68	9.25
Thiophene	C ₄ H ₄ S	Liquid	68	2.8
Thiophosphoryl Chloride	C ₄ H ₄ S	Liquid	77	2.57
Thorium Oxide	PSCI ₃	Liquid	70	5.8
Thujone	ThO ₂	Solid		10.6
Tide	C ₁₀ H ₁₆ O	Liquid	32	10
Thiethamine			21	3.2
Tin Tetrachloride	See Detergent Tide			
Titanium Dioxide	SnCl ₄	Liquid	68	2.87
Titanium Oxide	TiO ₂			110
Titanium Tetrachloride	TiO			40-50

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Tobacco	TiCl ₄	Liquid	68	2.8
Tobacco Dust 6% Moisture				1.6-1.7
Tobacco Dust 8% Moisture	loose	Granular		1.7
Toluene	loose	Granular		2.33
Toluene	C ₇ H ₈	Liquid	68	2.4
Toluidine	C ₇ H ₈	Liquid	86	2.364
Toluidine-m	Me-C ₆ H ₄ -NH ₂	Liquid	68	6
Toluidine-m	C ₇ H ₉ N	Liquid	136.4	5.45
Toluidine-o	C ₇ H ₉ N		64	6
Toluidine-o	C ₇ H ₉ N	Liquid	136.4	5.71
Toluidine-p	C ₇ H ₉ N		64	6.3
Toluidine-p	C ₇ H ₉ N	Solid	71.6	3
Tolunitrile	C ₇ H ₉ N	Liquid	129.2	4.98
Tolyl Methyl Ether	CN-C ₆ H ₄ Me	Liquid	73	18.8
Totane		Liquid	68	3.5
Tourmaline		Liquid	111	5.5
Tourmaline (para) Optic Axis				6.3
Tourmaline (perp) Optic Axis		Solid	71.6	6.3
Trans-3-Hexene				
Transmission Oil		Solid	71.6	7.1
Tribromoethane	See Oil, Transmission			
Tribromopropane	C ₂ H ₃ Br ₃	Liquid	68	4.39
Tribromopropane-1,2,3		Liquid	68	6.4
Tributyl Phosphate			68	6.45
Trichloroacetaldehyde		Liquid	86	7.95
Trichloroacetic Acid			68	4.9
Trichloroacetonitrile	C ₂ HCl ₃ O ₂	Liquid	140	4.6
Trichloroethane			66.2	7.85
Trichloroethane-1,1,1	C ₂ H ₃ Cl ₂			7.5
Trichloroethane1,1,2			68	7.52
Trichloroethylene			73.4	8.78
Trichloroethylene	C ₂ HCl ₃	Liquid	61	3.4
Trichlorofluoromethane	C ₂ HCl ₃		16	3.4
Trichloropropane			84.2	2.28
Trichloropropane-1,2,3	CH ₂ -Cl-CHCl-CH ₂ Cl	Liquid	76	2.42
Trichlorotoluene			68	7.5
Tricosanane	C ₆ H ₅ -CCl ₃	Liquid	70	6.9
Tricresyl Phosphate		Liquid	176	4
Triethanolamine	C ₂ 1H ₂ 1O ₄ P	Liquid	104	6.9
Triethyl Aconitate	N(C ₂ H ₄ OH) ₃	Liquid	77	29.36
Triethyl Aluminum		Liquid	68	6.4
Triethyl Ethanetricarbonylate		Liquid	66	6.5
Triethyl Isoaconitate	C ₆ H ₁₅ Al	Liquid	68	2.9
Triethyl Phosphate		Liquid	68	7.2
Triethyl Phosphite			149	10.93
Triethylamine	(C ₂ H ₅) ₃ PO ₃	Liquid		5
Triethylamine	C ₆ H ₁₅ N	Liquid	70	3.2
Triethylene Glycol	C ₆ H ₁₅ N	Liquid	77	2.42
Trifluoroacetic Acid			68	23.7
Trifluoroacetic Acid			68	8.55
Trifluoroactic Acid			122	5.76
Trifluorotoluene			68	39
Trimethyl Borate		Liquid	86	9.18

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Trimethyl Borate		Liquid	68	8.2
Trimethyl-3-Heptane			68	8.2
Trimethyl-3-Heptene		Liquid	68	2.2
Trimethylamine			68	2.2
Trimethylamine	NEt3	Liquid	39	2.9
Trimethylbenzene	NEt3	Liquid	77	2.4
Trimethylbenzene-1,2,3		Liquid	68	2.27
Trimethylbenzene-1,3,5	C6H3Me3	Liquid	86	2.609
Trimethylbenzene1,2,4	C9H12	Liquid	68	2.27
Trimethylbutane	C6H3Me3	Liquid	86	2.36
Trimethylbutane-2,2,3		Liquid	68	1.927
Trimenthyl Borate			68	8.2
Trimethylpentane			68	1.93
Trimethylpentane	C8H18	Liquid		1.95
Trimethylpentane-2,2,3	C8H18		68	2.9
Trimethylpentane-2,2,4	C8H18	Liquid	68	1.962
Trimethylpyridine-2,4,6	C8H18	Liquid	68	1.94
Trimethylsulfanilic Acid	C8H11N	Liquid		6.6
Trinitrobenzene		Liquid	64	89
Trinitrotoluene	C6H3(NO2)3	Liquid	68	2.2
Triolein	C6H2Me(NO2)3		69	22
Triphenyl Phosphite	(C18H33O2)3C3H5	Liquid	76	3.2
Triphenylmethane			149	3.57
Tripolmitin	C19H18	Liquid	212	2.45
Tris(4-ethylphenyl) Phosphite		Liquid	140	2.92
Tris(m-tolyl) Phosphite			113	3.61
Tris(p-tolyl) Phosphite			113	3.53
Tristearin			113	3.74
Tritolyl Phosphate	C57H110)6	Liquid	158	2.78
Turpentine, wood	(C6H4Me)3PO4	Liquid	104	6.92
Undecane			68	2.2
Undecane	Me(CH2)Me	Liquid	68	2.005
Undecane-n	Me(CH2)Me		302	1.84
Undecanone	C11H24	Liquid	68	2.005
Urea		Liquid	58	8.4
Urea				5.0-8.0
Urea	NH2-CO-NH2	Liquid	71	3.5
Urea Formaldehyde	NH2-CO-NH2	Solid	71.6	3.5
Urea Resin	Cellulose filled			6.4-6.9
Urea, paper-filled				6.2-9.5
Urethane	NH2-CO-NH2	Granular		6
Urethane	NH2-CO-OEt	Liquid	74	3.2
Urethane	NH2-CO-OEt		121	14.2
Urethane Resin	NH2-CO-OEt	Liquid		6.5-7.1
Valeraldehyde				6.5-7.1
Valeric Acid	C4H9-CHO	Liquid	58	11.8
Valeronitrile	C5H10O2	Liquid	68	2.66
Vanadium Oxybromide	C5H9N	Liquid	70	17.7
Vanadium Oxychloride	VOBr3	Liquid	78	3.6
Vanadium Sulfide	VOCl	Liquid	78	3.4
Vanadium Tetrachloride	V2S2			3.1
Vaseline	VCl4	Liquid	78	3
VEL				2.2-2.9

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Veratrole	See Detergent VEL			
Vinyl Acetate	C ₆ H ₄ (OMe) ₂	Liquid	73	4.5
Vinyl Alcohol	CH ₃ COOCH:CH ₂	Powder		4
Vinyl Alcohol Resin	CH ₂ :CH-OH			1.8-2.0
Vinyl Butyral				2.6-3.5
Vinyl Chloride				3.3-3.9
Vinyl Chloride	C ₂ H ₃ Cl	Powder		4
Vinyl Chloride (Acetate)	C ₂ H ₃ Cl	Powder		2.8-6.0
Vinyl Chloride (Flexible)				3.0-3.1
Vinyl Chloride (Ridgid)				3.5-4.5
Vinyl Chloride Resin, hard				2.8-3.0
Vinyl Chloride Resin, soft				5.8-6.4
Vinyl Ether				2.8-4.0
Vinyl Formal	C ₄ H ₆ O	Liquid	68	3.94
Vinylidene Chloride				3
Vinylidene Fluoride				3.0-4.0
Vycor Glass				3
Walnut, 17% Water				3.8
Walnut, dry		Solid		5
Water		Solid		2
Water	H ₂ O			4.0-88.0
Water	H ₂ O	Liquid	32	88
Water	H ₂ O	Liquid	68	80.4
Water	H ₂ O	Liquid	212	55.3
Water, Carbonated	H ₂ O	Liquid	390	34.5
Water, Chlorinated	H ₂ O with CO ₂	Liquid	70	380.0*
Water, Condensate	H ₂ O with Cl	Liquid	70	200.0*
Water, Deionized		Liquid	70	50.0*
Water, Demineralized	H ₂ O	Liquid	70	0.5*
Water, Distilled	H ₂ O	Liquid	70	0.05*
Water, Salt	H ₂ O	Liquid	70	2.0*
Water, Steam	H ₂ O with NaCl	Liquid	70	450.0*
Water, Tap	H ₂ O	Vapor		1.00785
Wax	Treated H ₂ O	Liquid	70	70.0*
Wheat				2.4-6.5
Wheat Flour		Powder		2.5-3.0
Wheat Flour (dry powder)				3.0-5.0
White Mica		Powder		1.6
Wood, dry	See Mica, White			
Wood, Pressed Board				2.0-6.0
Wood, wet				2.0-2.6
Xylene				10.0-30.0
Xylene	C ₆ H ₄ Me ₂	Liquid		2.2-2.6
Xylene-m	C ₆ H ₄ Me ₂	Liquid	68	2.4
Xylene-o	C ₈ H ₁₀	Liquid	86	2.35
Xylene-p	C ₈ H ₁₀	Liquid	68	2.568
Xylene-p	C ₈ H ₁₀	Solid	122	2.22
Xylenol	C ₈ H ₁₀	Liquid	68	2.27
Xylidine			62	3.9
Xylitol	C ₆ H ₃ Me ₂ NH ₂	Liquid	68	5
Zinc Oxide	CH ₂ OH(CHOH) ₃ CH ₂ OH	Liquid	68	40
Zinc Sulfide	ZnO			1.7-2.5
Zircon	ZnS	Solid		8.2



The Right Connection®

Dielectric Constants

Common Name	Chemical Formula	State	Degrees F	Dielectric Constant
Zircon (para)	ZrSiO ₄	Solid		12
Zircon (perp)	ZrSiO ₄	Solid	71.6	12
Zirconium Oxide	ZrSiO ₄	Solid	71.6	12
Zirconium Silicate	ZrO ₄	Solid		12.5
				5