



## Pharmaceutical Excipients FT-Raman Library

### *Library Listing – 300 spectra*

This library is designed for those laboratories studying pharmaceutical formulations using Raman spectroscopy. It provides high quality Raman spectra of the most common pharmaceutical excipients.

This spectral collection contains 300 Raman spectra collected using a Thermo Scientific FT-Raman spectrometer. All materials were tested via current United States Pharmacopoeia compendium methodology for identity and purity – only materials that passed these methods were used to create this library. The library includes chemical name, grade, molecular formula, molecular weight, CAS (Chemical Abstract Services) registry number, common usage, and any additional names.

Customers may purchase the library as Raman-only, FT-IR-only or as a matched FT-IR and Raman library. Combined searching requires the OMNIC Linked Search software. The Pharmaceutical Excipients Library was created in collaboration with David E. Bugay and W. Paul Findlay of Bristol-Myers Squibb Pharmaceutical Research Institute.

## Pharmaceutical Excipients FT-Raman Library

<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
1	Acacia	64	Corn Starch Acrylamide Sodium Acrylate Copolymer, A-140
2	Acetic Acid	65	Corn Starch Acrylamide Sodium Acrylate Copolymer, A-222
3	Acetone	66	Corn Starch Acrylamide Sodium Acrylate Copolymer, D-212
4	Acetyltributyl Citrate	60	Corn Starch, B700
5	Acetyltriethyl Citrate	61	Corn Starch, B810
6	Acrylamide/Sodium Acrylate Copolymer, G-400	62	Corn Starch, B880
7	Acrylic Acid Copolymer	63	Corn Starch, B890
8	Adipic Acid	67	Corn Syrup Solids, M200
9	Agar	68	Corn Syrup Solids, M250
10	Alcohol	69	Corn Syrup Solids, M365
11	Alginic Acid	70	Cottonseed Oil
13	Ammonium Acetate	71	Croscarmellose Sodium
14	Ammonium Phosphate Dibasic	72	Crospovidone
16	Apricot Kernel Oil PEG-6 Esters	74	D&C Red #27 Lake
17	Ascorbic Acid	75	D&C Yellow #10 Lake
18	Ascorbyl Palmitate	107	D-Fructose
19	Aspartame	156	DL-Malic Acid
21	Benzaldehyde	283	DL-Tartaric Acid
22	Benzalkonium Chloride	76	Denatonium Benzoate
23	Benzethonium Chloride	77	Dextrates
24	Benzoic Acid	78	Dextrin
25	Benzophenone	79	Diacetylated Monoglyceride, 9-40
26	Benzyl Alcohol	80	Dibutyl Phthalate
27	Benzyl Benzoate	81	Dibutyl Sebacate, NF
28	Boric Acid	82	Dichloromethane
29	Butyl Alcohol	83	Diethyl Phthalate, NF
31	Butylated Hydroxyanisole	84	Diethylene Glycol Monoethyl Ether
32	Butylated Hydroxytoluene	85	Dimethicone, NF 20
33	Caffeine	86	Dimethyl Sulfoxide
34	Calcium Acetate, Monohydrate	87	Dioctyl Phthalate
35	Calcium Carbonate	88	Docusate Sodium
36	Calcium Phosphate Dibasic, Dihydrate	89	Edetate Disodium, Dihydrate
37	Calcium Phosphate Tribasic	90	Ethyl Acetate
38	Calcium Silicate	91	Ethyl Maltol
39	Calcium Sulfate	92	Ethylcellulose, Medium, Viscosity=50
40	Calcium Sulfate, Dihydrate	93	Ethylcellulose, Medium, Viscosity=70
41	Carbomer, 934P	95	Ethylcellulose, Standard, Viscosity=10
42	Carbopol, 1342 NF Resin	96	Ethylcellulose, Standard, Viscosity=100
43	Carboxymethylcellulose Sodium	94	Ethylcellulose, Standard, Viscosity=4
44	Carrageenan	97	Ethylparaben
45	Castor Oil	98	FD&C Blue #2 Lake
50	Cellulose Acetate Phthalate	99	FD&C Blue #2 Powder
51	Cellulose Acetate Trimellitate/Trimellitic Acid	100	FD&C Red #3 Powder
46	Cellulose, Microcrystalline 50M	101	FD&C Red #40 Lake
47	Cellulose, Microcrystalline 90M	102	FD&C Red #40 Powder
48	Cellulose, Microcrystalline Ph102	103	FD&C Yellow #5 Lake
49	Cellulose, Microcrystalline Ph200	104	FD&C Yellow #5 Powder
52	Cetrimide	105	FD&C Yellow #6 Lake
53	Cetyl Alcohol	106	FD&C Yellow #6 Powder
54	Cetylpyridinium Chloride, Anhydrous	108	Fumaric Acid
55	Chloroform	109	Gelatin
56	Cholesterol	110	Gentisic Acid Ethanolamide
57	Citric Acid, Anhydrous		
58	Citric Acid, Monohydrate		
59	Corn Oil PEG-6 Esters		

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<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
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112	Glycerin	159	Maltodextrin, M050
113	Glycerol Mono-/Di-Caprylate/Caprates, 742	160	Maltodextrin, M100
114	Glycerol Stearate, 191	161	Maltodextrin, M150
115	Glyceryl Behenate	162	Maltodextrin, M180
116	Glyceryl Caprylate, 988	163	Maltol
117	Glyceryl Cocoate, 928	164	Mannitol, Granular
118	Glyceryl Laurate, 312	165	Mannitol, Granular USP 2080
119	Glyceryl Monooleate, 18-92	166	Mannitol, Parenteral
120	Glyceryl Monooleate, 18-99	167	Mannitol, Powder
121	Glyceryl Palmitostearate	168	Meglumine
122	Guanine	169	Menthol
123	Gum, Guar	170	Methacrylic Acid Copolymer
124	Gum, Xanthan	171	Methanol
125	Hard Fat, AM	172	Methyl Salicylate
126	Hexylene Glycol	175	Methylcellulose, A15C PREM
127	Hydroxyethyl Cellulose	176	Methylcellulose, A15LV PREM
128	Hydroxypropyl Cellulose	173	Methylcellulose, A4C PREM
135	Hydroxypropyl Methylcellulose 2208, K100M PREM CR	174	Methylcellulose, A4M PREM
134	Hydroxypropyl Methylcellulose 2208, K15M PREM CR	177	Methylparaben
138	Hydroxypropyl Methylcellulose 2910, E10M PREM CR	178	Mineral Oil
137	Hydroxypropyl Methylcellulose 2910, E4M PREM CR	179	Mineral Oil, Light
136	Hydroxypropyl Methylcellulose 2910, E6 PREM	180	Monoammonium Glycyrrhizinate, 100
139	Hydroxypropyl Methylcellulose Acetate Succinate, AS-LF	181	Monoammonium Glycyrrhizinate, 110
140	Hydroxypropyl Methylcellulose Phthalate, 50	182	Monoammonium Glycyrrhizinate, 180
141	Hydroxypropyl Methylcellulose Phthalate, 55	183	Monoethanolamine
130	Hydroxypropyl Methylcellulose, E15LV PREM	184	Monothioglycerol
129	Hydroxypropyl Methylcellulose, E3 PREM	185	Octanoic Acid, Sodium Salt
131	Hydroxypropyl Methylcellulose, F4 PREM	186	Oleyl Alcohol, NF
133	Hydroxypropyl Methylcellulose, K100M PREM	189	Opadry Blue, OY-6529
132	Hydroxypropyl Methylcellulose, K3 PREM	188	Opadry II, Y-22-7719
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144	Isopropyl Myristate	191	Opadry White, YS-1-7003
145	Isopropyl Palmitate	187	Opadry, YS-1-2546
146	Kaolin	192	Orange Mandrian
20	L-Aspartic Acid	193	Orange Terpeneless
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149	Lactose, Fast-Flo	196	Petrolatum
150	Lactose, Hydrous	197	Phenol
151	Lecithin	198	Poloxamer, 188
152	Ludipress	199	Poloxamer, 407
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154	Magnesium Stearate	207	Polyethylene Glycol 660 12-Hydroxystearate, HS 15
155	Magnesium Sulfate, Anhydrous	206	Polyethylene Glycol 8 Caprylic/Capric Glycerides
157	Maltitol, MR-20	201	Polyethylene Glycol, 1000 NF, FCC
		200	Polyethylene Glycol, 300 NF
		203	Polyethylene Glycol, 3350 Flake NF
		202	Polyethylene Glycol, 540 Blend NF
		204	Polyethylene Glycol, 8000 Powder NF, FCC
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213	Polyethylene Oxide, N-60000	259	Sodium Propionate, Anhydrous
212	Polyethylene Oxide, N-750	260	Sodium Starch Glycolate
211	Polyethylene Oxide, N-80	261	Sodium Stearate
215	Polyglyceryl Oleate, FCC	262	Sodium Stearyl Fumarate
216	Polyoxyl 35 Castor Oil	263	Sodium Sulfate, Anhydrous
217	Polyoxyl 40 Stearate	264	Sodium Sulfite
218	Polysorbate, 20	265	Sorbic Acid
219	Polysorbate, 80	266	Sorbitan Monopalmitate
220	Polyvinyl Alcohol, Hydrolyzed	267	Sorbitan Monostearate
221	Potassium Carbonate	268	Sorbitan Trioleate
222	Potassium Citrate	269	Sorbitan Tristearate
223	Potassium Metabisulfite	270	Sorbitol
224	Potassium Phosphate, Monobasic	271	Soybean Oil
225	Potassium Sodium Tartrate, Tetrahydrate	272	Starch, Fully Pregelatinized 1551
226	Potassium Sorbate	273	Starch, Partially Pregelatinized 1500
227	Povidone	274	Starch, Partially Pregelatinized 1500LM
228	Propionic Acid	275	Stearic Acid
229	Propylene Carbonate	276	Stearyl Alcohol
230	Propylene Glycol	277	Succinic Acid
231	Propylene Glycol Laurate, FCC	278	Sucrose
232	Propylparaben	279	Sucrose Octaacetate
233	Pyridine	280	Sugar, Confectioner's
234	Riboflavin	281	Sulfanilamide
235	Saccharin	282	Talc
236	Saccharin Sodium, Dihydrate	284	Thimerosal
237	Safflower Oil	285	Thymol
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239	Saturated Polyglycolyzed Glycerides, 50/13	287	Triacetin
240	Saturated Polyglycolyzed Glycerides, 53/10	288	Tributyl Citrate
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243	Simethicone, Emulsion USP	291	Triton, X-100
244	Simethicone, GS	292	Urea
245	Simethicone, USP	293	Vanillin
246	Sodium Acetate, Anhydrous	294	Vegetable Oil, Hydrogenated Type I
247	Sodium Alginate	295	Vinyl Acetate Crotonic Acid Copolymer
248	Sodium Ascorbate	296	Vinylpyrrolidone-Vinyl Acetate Copolymer, VA64
249	Sodium Benzoate	297	Water, Purified
250	Sodium Bicarbonate	298	Wax, Carnauba
251	Sodium Borate	299	Wax, Emulsifying
252	Sodium Carbonate	300	Wheat Germ Oil
253	Sodium Citrate, Dihydrate	73	beta-Cyclodextrin
254	Sodium Cyclamate	12	d-Alpha Tocopheryl Polyethylene Glycol 1000 Succinate
255	Sodium Lauryl Sulfate	30	n-Butylamine
256	Sodium Metabisulfite	143	sec-Isopropyl Alcohol
257	Sodium Phosphate Dibasic, Anhydrous	15	trans-Anethole