

Reference Materials for Food Packaging Migration Testing

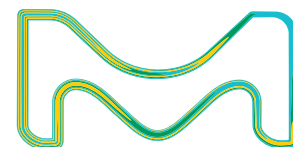
We offer a considerable range of analytical standards and certified reference materials (CRMs) to support the testing of Food Contact Materials.

TraceCERT[®] certified reference materials are manufactured in compliance with ISO 17034 and are qualified by quantitative NMR (qNMR). The certified values are traceable to NIST SRMs (standard reference material) and provided with an uncertainty taking into account stability and homogeneity of the material. Analytical standards are provided with a chromatographic purity value and confirmed identity. Find a list of available products

for testing of Food Contact Materials below. The list is sorted by the FCM Number (food contact material) from the positive list of Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food and only substances with a specific migration limit (SLM) are shown. Products may not use the same nomenclature or synonyms as the regulation so as an additional reference to identify the analytes, we have also provided the CAS numbers. For certain substances, various quality grades are available.

Find the products on our website at SigmaAldrich.com/fcm

FCM No.	Cat. No.	Product Description	CAS	Pack Size	Quality Grade
104	36932	Hexadecyltrimethylammonium Bromide	57-09-0	1g	Analytical Standard
127	500976	Vinyl Chloride solution, 2000 µg/mL in methanol	75-01-4	1ml	Certified Reference Material
127	48625	Vinyl Chloride solution, 200 µg/mL in methanol	75-01-4	1ml	Analytical Standard
129	48838	Ethylene Oxide solution, 50 mg/mL in methanol	75-21-8	1ml	Certified Reference Material
129	44609-U	Ethylene Oxide solution, 500 µg/mL in DMSO	75-21-8	1ml	Certified Reference Material
130	40027	1,1-Dichloroethene solution, 1000 µg/mL in methanol	75-35-4	1ml	Certified Reference Material
130	02574	1,1-Dichloroethene solution	75-35-4	1ml, 5ml	Analytical Standard
135	56671	(±)-Propylene oxide	75-56-9	1ml, 5ml	Analytical Standard
141	89878	1,1,1-Tris(hydroxymethyl)propane	77-99-6	100mg	Analytical Standard
142	90486	Triethoxyvinylsilane	78-08-0	100mg	Analytical Standard
144	59240	Isoprene	78-79-5	1ml, 10ml	Analytical Standard
145	08267	Acrylamide	79-06-1	100mg	Certified Reference Material
145	23701	Acrylamide	79-06-1	100mg	Analytical Standard
149	98936*	Methacrylamide	79-39-0	100mg	Analytical Standard
151	42088	Bisphenol A	80-05-7	100mg	Certified Reference Material
153	46158	Dapsone	80-08-0	250mg	Analytical Standard
154	43034	Bisphenol S	80-09-1	100mg	Analytical Standard



FCM No.	Cat. No.	Product Description	CAS	Pack Size	Quality Grade
157	18281	Dibutyl phthalate	84-74-2	50mg	Certified Reference Material
157	36736	Dibutyl phthalate	84-74-2	1g	Analytical Standard
159	42438	Benzyl butyl phthalate	85-68-7	50mg	Certified Reference Material
159	36927	Benzyl butyl phthalate	85-68-7	250mg	Analytical Standard
164	97088*	2-Aminobenzamide	88-68-6	100mg	Analytical Standard
170	96865*	4,4'-Dihydroxybiphenyl	92-88-6	100mg	Analytical Standard
175	95658*	Allyl methacrylate	96-05-9	100mg	Analytical Standard
177	01380	Ethylene Carbonate	96-49-1	1g	Certified Reference Material
178	90557	4,4'-Thiobis(2-tert-butyl-5-methylphenol)	96-69-5	100mg	Analytical Standard
185	52465	Ethylene glycol dimethacrylate	97-90-5	1ml	Analytical Standard
186	506761	4-tert-Butylphenol	98-54-4	1000mg	Analytical Standard
197	96008*	Cyclohexyl methacrylate	101-43-9	100mg	Analytical Standard
200	95929*	N,N'-Diphenylthiourea	102-08-9	100mg	Analytical Standard
201	96957*	Diphenyl Carbonate	102-09-0	100mg	Analytical Standard
206	67262	2-Ethylhexyl acrylate	103-11-7	5ml	Analytical Standard
207	16932	Bis(2-ethylhexyl) adipate	103-23-1	25mg	Certified Reference Material
207	68995	Bis(2-ethylhexyl) adipate	103-23-1	100mg	Analytical Standard
208	A-064	Acetaminophen solution, 0.1mg/mL in methanol	103-90-2	1ml	Certified Reference Material
209	08607	2-Ethyl-1-Hexanol	104-76-7	1ml, 5ml	Analytical Standard
217	40025	1,4-Dichlorobenzene solution, 5000 µg/mL in methanol	106-46-7	1ml	Certified Reference Material
219	02578	(±)-Epichlorhydrin	106-89-8	1ml	Analytical Standard
220	89873	Glycidyl methacrylate	106-91-2	100mg	Analytical Standard
225	40003	Acrylonitrile solution, 5000 µg/mL in methanol	107-13-1	1ml	Certified Reference Material
226	41008	Ethylenediamine	107-15-3	1ml	Analytical Standard
230	50632	2-Dimethylaminoethanol	108-01-0	1ml	Analytical Standard
231	40327	Vinyl acetate solution, 5000 µg/mL in acetonitrile	108-05-4	1ml	Certified Reference Material
231	48486	Vinyl acetate	108-05-4	1g	Analytical Standard
236	52519	m-Phenylenediamine	108-45-2	100mg	Analytical Standard
237	53363	Resorcinol	108-46-3	100mg	Certified Reference Material
239	52549	Melamine	108-78-1	250mg	Analytical Standard
241	40063	Phenol solution, 5000 µg/mL in methanol	108-95-2	1ml	Certified Reference Material
241	35952	Phenol	108-95-2	500mg, 1g	Analytical Standard
243	96690*	Isobutyl Vinyl Ether	109-53-5	100mg	Analytical Standard
245	76969	1-Pentene	109-67-1	5ml	Analytical Standard
246	78445	Tetrahydrofuran	109-99-9	5ml	Analytical Standard
255	95711*	1,3,5-Trioxane	110-88-3	100mg	Analytical Standard
261	51851	Diethylenetriamine	111-40-0	1ml	Analytical Standard
262	97583*	N-(2-Aminoethyl)Ethanolamine	111-41-1	100mg	Analytical Standard
264	74900	1-Octene	111-66-0	5ml	Analytical Standard
280	96382	Tris(2-chloroethyl) phosphate	115-96-8	100mg	Certified Reference Material
280	07296	Tris(2-chloroethyl) phosphate	115-96-8	1ml	Analytical Standard
283	67261	Bis(2-ethylhexyl) phthalate	117-81-7	100mg	Certified Reference Material
283	47994	Bis(2-ethylhexyl) phthalate solution, 2000 µg/mL in methanol	117-81-7	1ml	Certified Reference Material
283	36735	Bis(2-ethylhexyl) phthalate	117-81-7	1g	Analytical Standard
284	76631	Methyl salicylate	119-36-8	1ml, 5ml	Analytical Standard
286	78274*	Benzophenone	119-61-9	100mg	Certified Reference Material
286	442842	Benzophenone	119-61-10	500mg	Certified Reference Material

FCM No.	Cat. No.	Product Description	CAS	Pack Size	Quality Grade
289	50550	Pyrocatechol	120-80-9	100mg	Certified Reference Material
292	90164	Triisopropanolamine	122-20-3	100mg	Analytical Standard
293	50982	Triethyl phosphite	122-52-1	1ml	Analytical Standard
295	74347	Hydroquinone	123-31-9	100mg	Certified Reference Material
305	52003	Hexamethylenediamine	124-09-4	100mg	Analytical Standard
313	45458	Diphenyl Sulphone	127-63-9	100mg	Analytical Standard
315	75918	2,6-Di-tert-butyl-4-methylphenol	128-37-0	50mg	Certified Reference Material
316	36925	Diallyl phthalate	131-17-9	250mg	Analytical Standard
324	90969	Ricinoleic Acid	141-22-0	100mg	Analytical Standard
326	97627*	Ethanolamine	141-43-5	100mg	Certified Reference Material
326	00278	Ethanolamine	141-43-5	5ml	Analytical Standard
333	41706	Oxalic Acid	144-62-7	100mg	Analytical Standard
337	07563	4,4'-Difluorobenzophenone	345-92-6	500mg	Certified Reference Material
341	51694	Bicyclo[2.2.1]hept-2-ene	498-66-8	100mg	Analytical Standard
351	66070	3-Methyl-1-butene	563-45-1	10ml	Analytical Standard
352	36715	2,6-Dimethylphenol	576-26-1	1g	Analytical Standard
356	52930	1-Hexene	592-41-6	5ml, 10ml	Analytical Standard
361	52529	1,6-Hexanediol	629-11-8	100mg	Analytical Standard
363	97610*	1,3-Dioxolane	646-06-0	100mg	Analytical Standard
375	30649	1-Decene	872-05-9	5ml	Analytical Standard
376	77928*	1-Methyl-2-pyrrolidinone	872-50-4	100mg	Certified Reference Material
376	78769	1-Methyl-2-pyrrolidinone	872-50-4	5ml, 10ml	Analytical Standard
377	49863	(3-Aminopropyl)triethoxysilane	919-30-2	1ml	Analytical Standard
381	29648	Cyclooctene	931-88-4	1ml	Analytical Standard
383	96607*	2-Phenylindole	948-65-2	100mg	Analytical Standard
387	96606*	1-Vinylimidazole	1072-63-5	100mg	Analytical Standard
388	87187	1-Tetradecene	1120-36-1	5ml	Analytical Standard
389	95934*	2,6-Naphthalenedicarboxylic acid	1141-38-4	100mg	Analytical Standard
420	44291	Dimethyl isophthalate	1459-93-4	100mg	Analytical Standard
429	96355*	4,4'-Methylenebis(cyclohexylamine)	1761-71-3	100mg	Analytical Standard
434	95713*	1,4-Butanediol dimethacrylate	2082-81-7	100mg	Analytical Standard
442	96892*	1,4-Butanediol diglycidyl ether	2425-79-8	100mg	Analytical Standard
451	73569	2-Methyl-4-isothiazolin-3-one	2682-20-4	1g	Analytical Standard
453	52009	Vinyltrimethoxysilane	2768-02-7	1ml	Analytical Standard
454	95323*	1-Amino-3-(aminomethyl)-3,5,5-Trimethylcyclohexane	2855-13-2	100mg	Analytical Standard
463	52052	Trimethylolpropane trimethacrylate	3290-92-4	1ml	Analytical Standard
471	91338	Dimethyl 5-sulfoisophthalate sodium salt	3965-55-7	100mg	Analytical Standard
481	98833*	1,3,5-Benzenetricarbonyl trichloride	4422-95-1	100mg	Analytical Standard
487	72812*	Ethyl 2-cyano-3,3-diphenylacrylate	5232-99-5	100mg	Analytical Standard
492	02343	Octocrylene	6197-30-4	1ml	Analytical Standard
497	41601	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	1ml	Analytical Standard
532	43956	Epoxidized soya bean oil	8013-07-8	2.5g	Analytical Standard
617	52473	2-Acrylamido-2-methyl-1-propanesulfonic acid	15214-89-8	100mg	Analytical Standard
632	CRM78699*	Ethyl 4-ethoxybenzoate	23676-09-7	100mg	Certified Reference Material
635	49886	Butylated hydroxyanisole	25013-16-5	50mg	Certified Reference Material
635	78943	Butylated hydroxyanisole	25013-16-5	500mg	Analytical Standard
738	69388*	2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol	70321-86-7	100mg	Analytical Standard

FCM No.	Cat. No.	Product Description	CAS	Pack Size	Quality Grade
770	69712*	2-(4,6-Diphenyl-1,3,5-triazin-2-yl)-5-[(hexyl)oxy]-phenol	147315-50-2	100mg	Analytical Standard
773	72645*	3,9-Bis(2,4-dicumylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	154862-43-8	100mg	Analytical Standard
788	51822	3-(Trimethoxysilyl)propyl methacrylate	2530-85-0	1ml	Analytical Standard
793	50926	Triethanolamine	102-71-6	1ml	Analytical Standard
798	49234	Bis(2-ethylhexyl) terephthalate	6422-86-2	1ml	Analytical Standard
806	96047*	1,4-Cyclohexanedicarboxylic acid	1076-97-7	100mg	Analytical Standard
883	96625*	3-Methyl-1,5-pentanediol	4457-71-0	100mg	Analytical Standard

* Product will be launched soon

SigmaAldrich.com/fcm



To place an order or receive technical assistance

Order/Customer Service: SigmaAldrich.com/order

Technical Service: SigmaAldrich.com/techservice

SigmaAldrich.com

Merck KGaA
Frankfurter Strasse 250
64293 Darmstadt, Germany

SigmaAldrich.com

We have built a unique collection of life science brands with unrivalled experience in supporting your scientific advancements.

Millipore **Sigma-Aldrich** **Supelco** **Milli-Q** **SAFC** **BioReliance**

© 2023 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved. Merck, the vibrant M, TraceCERT and Supelco are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly accessible resources.

