

Polycyclic aromatic compounds

Introduction

The Polycyclic Aromatic Compounds (PACs) contain the largest number of confirmed and suspected carcinogenic and/or mutagenic chemical compounds known to man. The term PAC is used to describe both the homocyclic and hetero-cyclic compounds. The parent homocyclic polyaromatic hydrocarbons are well known by abbreviation PAH. Work on these compounds started in the early 1930's when Dibenzo(a,h)anthracene was identified as the first chemical carcinogen, and Benzo(a)pyrene isolated from coal tar as a cancer producing hydrocarbon. The many anthropogenic sources of potential PAC carcinogens led to work on the substituted PAHs - usually nitro, amino, methyl or hydroxy - and on the more polar heterocyclic compounds such as the nitrogen, sulfur or oxygen containing PACs.

Nomenclature

The IUPAC nomenclature has not been followed in all cases. Examples are Benzo(b)fluoranthene, Benzo(a)pyrene and Anthanthrene which are frequently not recognised under their respective IUPAC names of Benzo(e)acephenanthrylene, Benzo(def)chrysene and Dibenzo(def,mno)chrysene. Cross references are given. The substituted compounds are listed under the parent compound e.g.

Chrysene
Chrysene, 1-methyl
Chrysene, 2-methyl

Code	Product	Unit
U-RAH-001	Acenaphthene	100 mg
CERERA-009	Acenaphthene	250 mg
U-P-610-1	Acenaphthene 100 µg/mL in Methanol	1 mL
U-P-610	Acenaphthene 100 µg/mL in Methanol	4 x 1 mL
U-EPA-1064	Acenaphthene 5000 µg/mL in Methanol	1 mL
CERERA-033S	Acenaphthene 5000 µg/mL in Methanol	1.2 mL
U-ATS-110-1	Acenaphthene-D ₁₀ 2000 µg/mL in Methylene chloride	1 mL
U-ATS-110	Acenaphthene-D ₁₀ 2000 µg/mL in Methylene chloride	4 x 1 mL
CIL-DLM-108-1.2	Acenaphthene (D ₁₀ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-108-0.1	Acenaphthene (D ₁₀ ,98%)	0.1 g
CIL-DLM-108-1	Acenaphthene (D ₁₀ ,98%)	1 g
CIL-DLM-108-5	Acenaphthene (D ₁₀ ,98%)	5 g
CIL-CLM-1643-1.2	Acenaphthene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
U-RAH-064	Acenaphthylene	100 mg
CERERA-005	Acenaphthylene	100 mg
U-P-620-1	Acenaphthylene 100 µg/mL in Methanol	1 mL
U-P-620	Acenaphthylene 100 µg/mL in Methanol	4 x 1 mL
U-EPA-1065	Acenaphthylene 5000 µg/mL in Methanol	1 mL
CERERA-034S	Acenaphthylene 5000 µg/mL in Methanol	1.2 mL
CIL-DLM-2204-1.2	Acenaphthylene (D ₈ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-2204-0.1	Acenaphthylene (D ₈ ,98%)	0.1 g
CIL-CLM-2477-1.2	Acenaphthylene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
CIL-DLM-849-0.1	Acridine (D ₉ ,98%)	0.1 g
CIL-DLM-849-0.5	Acridine (D ₉ ,98%)	0.5 g
U-RAH-082	Anthanthrene	10 mg
BCR-091	Anthanthrene	100 mg
U-RAH-002	Anthracene	100 mg
CERERA-010	Anthracene	250 mg
U-P-630-1	Anthracene 100 µg/mL in Methylene chloride	1 mL
U-P-630	Anthracene 100 µg/mL in Methylene chloride	4 x 1 mL
U-EPA-1070	Anthracene 1000 µg/mL in Acetone	1 mL
CERERA-035S	Anthracene 1000 µg/mL in Acetone	1.2 mL
CIL-DLM-102-1.2	Anthracene (D ₁₀ ,98%) 200 µg/mL in Isooctane	1.2 mL

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Code	Product	Unit
CIL-DLM-102-1	Anthracene (D ₁₀ ,98%)	1 g
CIL-DLM-102-5	Anthracene (D ₁₀ ,98%)	5 g
CIL-CLM-1333-1.2	Anthracene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
U-RAH-021	Anthracene, 9,10-dihydro	100 mg
U-RAH-024	Anthracene, 9,10-dimethyl	10 mg
U-RAH-098	Anthracene, 1-methyl	10 mg
U-RAH-036	Anthracene, 2-methyl	100 mg
U-RAH-037	Anthracene, 9-methyl	100 mg
BCR-308	Anthracene, 9-nitro	10 mg
U-RAH-086	Anthracene, 9,10-diphenyl	100 mg
U-RAH-089	Anthracene, 9-phenyl	100 mg
IPO 007	Anthraquinone	250 mg
	7-Azabenz(a)anthracene see Benzo(a)acridine 12-Azabenz(a)anthracene see Benzo(c)acridine 7-Azabenz(a)naphthacene see Dibenzo(a,i)acridine	
BCR-092	10-Azabenz(a)pyrene	100 mg
	9-Azabenz(b)triphenylene see Dibenzo(a,c)acridine 7-Azadibenzo(a,h)anthracene see Dibenzo(a,h)acridine 14-Azadibenzo(a,j)anthracene see Dibenzo(a,j)acridine 7-Azadibenzo(a,i)anthracene see Dibenzo(c,h)acridine 7-Aza-7H-dibenzo(c,g)fluorene see 7H Dibenzo(c,g)carbazole	
U-RAH-003	Azulene	10 mg
	1,2-Benzacridine see Benzo(a)acridine 3,4-Benzacridine see Benzo(c)acridine 1,2-Benzanthracene see Benz(a)anthracene Benzo(a)aceanthrylene see Benzo(a)fluoranthene Benzo(e)acephenanthrylene see Benzo(b)fluoranthene	
BCR-157	Benzo[a]acridine	100 mg
BCR-158	Benzo[c]acridine	100 mg
U-RAH-004	Benzo[a]anthracene	20 mg
BCR-271	Benzo[a]anthracene	20 mg
CERERB-006	Benzo[a]anthracene	100 mg
U-P-640-1	Benzo[a]anthracene 100 µg/mL in Methylene chloride	1 mL
U-P-640	Benzo[a]anthracene 100 µg/mL in Methylene chloride	4 x 1 mL
U-EPA-1072	Benzo[a]anthracene 1000 µg/mL in Methanol	1 mL
CERERB-032S	Benzo[a]anthracene 1000 µg/mL in Methanol	1.2 mL
CIL-DLM-610-1.2	Benzo[a]anthracene (D ₁₂ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-610-0.1	Benzo[a]anthracene (D ₁₂ ,98%)	0.1 g
CIL-CLM-3602-1.2	Benzo[a]anthracene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
U-RAH-025	Benzo[a]anthracene, 7,12-dimethyl	10 mg
U-EPA-1110	Benzo[a]anthracene, 7,12-dimethyl 1000 µg/mL in Methanol	1 mL
BCR-093R	Benzo[a]anthracene, 1-methyl	10 mg
BCR-046	Benzo[b]chrysene	100 mg
BCR-140	Benzo[c]chrysene	100 mg
	Benzo(def)chrysene see Benzo(a)pyrene 5,6-Benzochrysene see Benzo(c)chrysene	
BCR-097	Benzo[a]fluoranthene	100 mg
U-RAH-072	Benzo[b]fluoranthene	10 mg
BCR-047	Benzo[b]fluoranthene	100 mg
CERERB-002	Benzo[b]fluoranthene	100 mg
U-P-660-1	Benzo[b]fluoranthene 100 µg/mL in Methylene chloride	1 mL
U-P-660	Benzo[b]fluoranthene 100 µg/mL in Methylene chloride	4 x 1 mL
U-EPA-1073	Benzo[b]fluoranthene 1000 µg/mL in Acetone	1 mL
CERERB-033S	Benzo[b]fluoranthene 1000 µg/mL in Acetone	1.2 mL

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Code	Product	Unit
CIL-DLM-2136-1.2	Benzo[b]fluoranthene (D ₁₂ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-2136-0.01	Benzo[b]fluoranthene (D ₁₂ ,98%)	0.01 g
CIL-CLM-3599-1.2	Benzo[b]fluoranthene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
BCR-139	Benzo[ghij]fluoranthene	100 mg
BCR-049	Benzo[j]fluoranthene	100 mg
CERERB-005	Benzo[j]fluoranthene	25 mg
U-RAH-073	Benzo[k]fluoranthene	10 mg
BCR-048R	Benzo[k]fluoranthene	10 mg
CERERB-001	Benzo[k]fluoranthene	100 mg
U-P-680-1	Benzo[k]fluoranthene 100 µg/mL in Methylene chloride	1 mL
U-P-680	Benzo[k]fluoranthene 100 µg/mL in Methylene chloride	4 x 1 mL
U-EPA-1074	Benzo[k]fluoranthene 1000 µg/mL in Acetone	1 mL
CERERB-034S	Benzo[k]fluoranthene 1000 µg/mL in Acetone	1.2 mL
NE5021	Benzo[k]fluoranthene 100 µg/mL in Acetonitrile	1.5 mL
CIL-DLM-1923-1.2	Benzo[k]fluoranthene (D ₁₂ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-1923-0.01	Benzo[k]fluoranthene (D ₁₂ ,98%)	0.01 g
CIL-CLM-3756-1.2	Benzo[k]fluoranthene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
	1,2-Benzofluoranthene see Benzo(a)fluoranthene	
	2,3-Benzofluoranthene see Benzo(a)fluoranthene	
	3,4-Benzofluoranthene see Benzo(b)fluoranthene	
	10,11-Benzofluoranthene see Benzo(j)fluoranthene	
	11,12-Benzofluoranthene see Benzo(k)fluoranthene	
U-RAH-005	Benzo[a]fluorene	10 mg
U-RAH-006	Benzo[b]fluorene	10 mg
BCR-342	Benzo[a]fluorenone	10 mg
BCR-340	Benzo[b]naphtho[1,2-d]furan	10 mg
BCR-341	Benzo[b]naphtho[2,1-d]furan	10 mg
BCR-137R	Benzo[b]naphtho[1,2-d]thiophene	10 mg
BCR-136R	Benzo[b]naphtho[2,3-d]thiophene	10 mg
	Benzo(rst)pentaphene see Dibenzo(a,i)pyrene	
U-RAH-009	Benzo[ghi]perylene	10 mg
BCR-052	Benzo[ghi]perylene	100 mg
CERERB-003	Benzo[ghi]perylene	25 mg
U-P-670-1	Benzo[ghi]perylene 100 µg/mL in Methylene chloride	1 mL
U-P-670	Benzo[ghi]perylene 100 µg/mL in Methylene chloride	4 x 1 mL
CERERB-035S	Benzo[ghi]perylene 1000 µg/mL in Methylene chloride	1.2 mL
NE5025	Benzo[ghi]perylene 100 µg/mL in Acetonitrile	1.5 mL
CIL-DLM-2135-1.2	Benzo[ghi]perylene (D ₁₂ ,98%) 200 µg/mL in Toluene-d ₈	1.2 mL
CIL-DLM-2135-0.01	Benzo[ghi]perylene (D ₁₂ ,98%)	0.01 g
CIL-CLM-1364-1.2	Benzo[ghi]perylene (¹³ C ₁₂ ,99%) 100 µg/mL in Nonane	1.2 mL
	1,12-Benzoperylene see Benzo(ghi)perylene	
	Benzo(a)phenanthrene see Chrysene	
BCR-134	Benzo[c]phenanthrene	100 mg
CERERB-040	Benzo(c)phenanthrene	25 mg
U-RAH-010	Benzo[a]pyrene	10 mg
CERERB-007	Benzo[a]pyrene	100 mg
U-P-650-1	Benzo[a]pyrene 100 µg/mL in Methylene chloride	1 mL
U-P-650	Benzo[a]pyrene 100 µg/mL in Methylene chloride	4 x 1 mL
U-EPA-1075	Benzo[a]pyrene 1000 µg/mL in Acetone	1 mL
CERERB-036S	Benzo[a]pyrene 1000 µg/mL in Acetone	1.2 mL
NE5029	Benzo[a]pyrene 100 µg/mL in Acetonitrile	1.5 mL
CIL-DLM-258-1.2	Benzo[a]pyrene (D ₁₂ ,98%) 200 µg/mL in Isooctane	1.2 mL

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Code	Product	Unit
CIL-DLM-258-0.01	Benzo[a]pyrene (D ₁₂ ,98%)	0.01 g
CIL-DLM-258-0.05	Benzo[a]pyrene (D ₁₂ ,98%)	0.05 g
CIL-DLM-258-0.1	Benzo[a]pyrene (D ₁₂ ,98%)	0.1 g
CIL-CLM-2722-1.2	Benzo[a]pyrene (¹³ C ₄ ,99%) 100 µg/mL in Nonane	1.2 mL
BCR-311	Benzo[a]pyrene, 6-nitro	10 mg
U-RAH-081	Benzo[e]pyrene	10 mg
BCR-050	Benzo[e]pyrene	100 mg
CIL-DLM-257-1.2	Benzo[e]pyrene (D ₁₂ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-257-0.01	Benzo[e]pyrene (D ₁₂ ,98%)	0.01 g
CIL-CLM-6170-1.2	Benzo[e]pyrene (9,10,11,12- ¹³ C ₄ ,99%) 100 µg/mL in Nonane	1.2 mL
	3,4-Benzopyrene see Benzo(a)pyrene	
	1,2-Benzopyrene see Benzo(e)pyrene	
	4,5-Benzopyrene see Benzo(e)pyrene	
BCR-339	Benzo[c,d]pyren-6-one	10 mg
	3,4-Benzotetraphene see Benzo(b)chrysene	
	2,3-Benzo-9-thiafluorene see Benzo(b)naphtho(2,3-d)thiophene	
	3,4-Benzo-9-thiafluorene see Benzo(b)naphtho(1,2-d)thiophene	
	Benzo(b)triphenylene see Dibenz(a,c)anthracene	
U-RAH-012	1,1'-Binaphthyl	50 mg
U-RAH-013	2,2'-Binaphthyl	50 mg
U-RAH-071	Biphenyl, 2,2'-dimethyl	10 mg
U-RAH-062	Biphenyl, 3,3'-dimethyl	20 mg
U-RAH-026	Biphenyl, 4,4'-dimethyl	100 mg
U-RAH-038	Biphenyl, 2-methyl	100 mg
U-RAH-039	Biphenyl, 3-methyl	100 mg
U-RAH-040	Biphenyl, 4-methyl	100 mg
U-RAH-041	Cholanthrene, 3-methyl	10 mg
U-P-780-1	Cholanthrene, 3-methyl 100 µg/mL in Methylene chloride	1 mL
U-P-780	Cholanthrene, 3-methyl 100 µg/mL in Methylene chloride	4 x 1 mL
U-RAH-007	Chrysene	100 mg
BCR-269	Chrysene	20 mg
CERERC-001	Chrysene	100 mg
U-P-690-1	Chrysene 100 µg/mL in Methylene chloride	1 mL
U-P-690	Chrysene 100 µg/mL in Methylene chloride	4 x 1 mL
U-EPA-1092	Chrysene 1000 µg/mL in Acetone	1 mL
CERERC-014S	Chrysene 1000 µg/mL in Acetone	1.2 mL
U-ATS-120-1	Chrysene-D ₁₂ 2000 µg/mL in Methylene chloride	1 mL
U-ATS-120	Chrysene-D ₁₂ 2000 µg/mL in Methylene chloride	4 x 1 mL
CIL-DLM-261-1.2	Chrysene (D ₁₂ ,98%) 200 µg/mL in Toluene-D ₈	1.2 mL
CIL-DLM-261-0.1	Chrysene (D ₁₂ ,98%)	0.1 g
CIL-DLM-261-1	Chrysene (D ₁₂ ,98%)	1 g
CIL-CLM-3757-1.2	Chrysene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
BCR-077R	Chrysene, 1-methyl	10 mg
BCR-078R	Chrysene, 2-methyl	10 mg
BCR-079R	Chrysene, 3-methyl	10 mg
BCR-080R	Chrysene, 4-methyl	10 mg
BCR-081R	Chrysene, 5-methyl	10 mg
CERERM-041	Chrysene, 6-methyl	10 mg
BCR-309	Chrysene, 6-nitro	10 mg
	alpha-Chrysidine see Benzo(c)acridine	
U-RAH-015	Coronene	10 mg
BCR-272	Coronene	20 mg

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Code	Product	Unit
CIL-DLM-2715-1.2	Coronene (D ₁₂ ,97%) 200 µg/mL in Benzene	1.2 mL
CIL-DLM-2715-0.1	Coronene (D ₁₂ ,97%)	0.1 g
U-RAH-088	4H-Cyclopenta[def]phenanthrene	10 mg
BCR-338	4H-Cyclopenta[def]phenanthren-4-one	10 mg
DE-PAH 1520	Cyclopenta[cd]pyrene	10 mg
	Cyclopenteno(cd)pyrene see Cyclopenta(cd)pyrene	
U-RAH-016	Decacyclene	100 mg
	1,2;3,4-Dibenzacridine see Dibenzo(a,c)acridine	
	1,2;5,6-Dibenzacridine see Dibenzo(a,h)acridine	
	1,2;6,7-Dibenzacridine see Dibenzo(a,i)acridine	
	1,2;7,8-Dibenzacridine see Dibenzo(a,j)acridine	
	3,4;5,6-Dibenzacridine see Dibenzo(c,h)acridine	
	1,2;3,4-Dibenzanthracene see Dibenzo(a,c)anthracene	
	1,2;5,6-Dibenzanthracene see Dibenzo(a,h)anthracene	
	1,2;7,8-Dibenzanthracene see Dibenzo(a,j)anthracene	
	Dibenzo(a,e)aceanthrylene see Dibenzo(a,e)fluoranthene	
BCR-155	Dibenzo[a,c]acridine	100 mg
BCR-153R	Dibenzo[a,h]acridine	10 mg
CERERD-013	Dibenzo[a,h]acridine	25 mg
BCR-152	Dibenzo[a,i]acridine	20 mg
BCR-154	Dibenzo[a,j]acridine	100 mg
CERERD-014	Dibenzo[a,j]acridine	25 mg
CIL-DLM-3843-1.2	Dibenzo[a,j]acridine (D ₁₃ ,98%) 50 µg/mL in Toluene-D ₈	1.2 mL
BCR-156R	Dibenzo[c,h]acridine	10 mg
U-RAH-018	Dibenzo[a,c]anthracene	10 mg
BCR-094	Dibenzo[a,c]anthracene	100 mg
U-RAH-019	Dibenzo[a,h]anthracene	10 mg
BCR-138	Dibenzo[a,h]anthracene	100 mg
CERERD-003	Dibenzo[a,h]anthracene	100 mg
U-P-700-1	Dibenzo[a,h]anthracene 100 µg/mL in Methylene chloride	1 mL
U-P-700	Dibenzo[a,h]anthracene 100 µg/mL in Methylene chloride	4 x 1 mL
CERERD-042S	Dibenzo[a,h]anthracene 1000 µg/mL in Methylene chloride	1.2 mL
CIL-DLM-677-1.2	Dibenzo[a,h]anthracene (D ₁₄ ,97%) 200 µg/mL in Toluene-D ₈	1.2 mL
CIL-DLM-677-0.1	Dibenzo[a,h]anthracene (D ₁₄ ,97%)	0.1 g
CIL-CLM-3598-1.2	Dibenz[a,h]anthracene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
BCR-095	Dibenzo[a,j]anthracene	100 mg
BCR-266	7H-Dibenzo[c,g]carbazole	20 mg
CIL-DLM-3841-1.2	7H-Dibenzo[c,g]carbazole (D ₁₂ ,98%) 50 µg/mL in Toluene-D ₈	1.2 mL
	Dibenzo(def,mno)chrysene see Anthanthrene	
	Dibenzo(b,def)chrysene see Dibenzo(a,h)pyrene	
	Dibenzo(def,p)chrysene see Dibenzo(a,l)pyrene	
BCR-265	Dibenzo[a,e]fluoranthene	20 mg
	2,3,5,6-Dibenzofluoranthene see Dibenzo(a,e)fluoranthene	
BCR-337	Dibenzo[b,d]furan	10 mg
	1,2,3,4-Dibenzonaphthalene see Triphenylene	
U-RAH-083	Dibenzo[a,l]pentacene	10 mg
BCR-133	Dibenzo[a,e]pyrene	100 mg
CERERD-151	Dibenzo[a,e]pyrene	10 mg
U-P-801-1	Dibenzo[a,e]pyrene 200 µg/mL in Dichloromethane	1 mL
U-P-801	Dibenzo[a,e]pyrene 200 µg/mL in Dichloromethane	4 x 1 mL
CIL-CLM-3835-1.2	Dibenzo[a,e]pyrene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
U-RAH-076	Dibenzo[a,h]pyrene	10 mg
BCR-159	Dibenzo[a,h]pyrene	100 mg
CERERD-052	Dibenzo[a,h]pyrene	25 mg

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Code	Product	Unit
U-P-821-1	Dibenzo[a,h]pyrene 200 µg/mL in Dichloromethane	1 mL
U-P-821	Dibenzo[a,h]pyrene 200 µg/mL in Dichloromethane	4 x 1 mL
CERERD-088S	Dibenzo[a,i]pyrene 100 µg/mL in Toluene	1.2 mL
U-P-811-1	Dibenzo[a,i]pyrene 200 µg/mL in Dichloromethane	1 mL
U-P-811	Dibenzo[a,i]pyrene 200 µg/mL in Dichloromethane	4 x 1 mL
CIL-DLM-3740-1.2	Dibenzo[a,i]pyrene (D ₁₄ ,98%) 200 µg/mL in Toluene-D8	1.2 mL
CIL-CLM-3774-A	Dibenzo[a,i]pyrene (¹³ C ₁₂ ,99%) 50 µg/mL in Nonane	1.2 mL
BCR-096	Dibenzo[a,l]pyrene	100 mg
CERERD-051	Dibenzo[a,l]pyrene	25 mg
U-P-791-1	Dibenzo[a,l]pyrene 200 µg/mL in Dichloromethane	1 mL
U-P-791	Dibenzo[a,l]pyrene 200 µg/mL in Dichloromethane	4 x 1 mL
	Dibenzo(b,h)pyrene see Dibenzo(a,i)pyrene Dibenzo(cd,jk)pyrene see Anthanthrene 1,2;4,5-Dibenzopyrene see Dibenzo(a,e)pyrene 1,2;3,4-Dibenzopyrene see Dibenzo(a,l)pyrene 1,2,7,8-Dibenzopyrene see Dibenzo(a,i)pyrene 3,4;8,9-Dibenzopyrene see Dibenzo(a,h)pyrene 3,4,9,10-Dibenzopyrene see Dibenzo(a,i)pyrene	
U-RAH-084	Diindeno(1,2,3-cd:1',2',3'-lm]perylene	5 mg
U-RAH-020	1,2-Diphenylethane	100 mg
U-RAH-031	Fluoranthene	100 mg
BCR-160R	Fluoranthene	10 mg
CERERF-001	Fluoranthene	250 mg
U-P-710-1	Fluoranthene 100 µg/mL in Methylene chloride	1 mL
U-P-710	Fluoranthene 100 µg/mL in Methylene chloride	4 x 1 mL
U-EPA-1121	Fluoranthene 5000 µg/mL in Methanol	1 mL
CERERF-007S	Fluoranthene 5000 µg/mL in Methanol	1.2 mL
CIL-DLM-2140-1.2	Fluoranthene (D ₁₀ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-2140-0.1	Fluoranthene (D ₁₀ ,98%)	0.1 g
CIL-CLM-3597-1.2	Fluoranthene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
BCR-310	Fluoranthene, 3-nitro	10 mg
U-RAH-091	Fluoranthene, 1,2,3,4-tetrahydro	10 mg
U-RAH-032	Fluorene	100 mg
CERERF-002	Fluorene	250 mg
U-P-720-1	Fluorene 100 µg/mL in Methanol	1 mL
U-P-720	Fluorene 100 µg/mL in Methanol	4 x 1 mL
U-EPA-1122	Fluorene 5000 µg/mL in Methanol	1 mL
CERERF-008S	Fluorene 5000 µg/mL in Methanol	1.2 mL
CIL-DLM-1123-1.2	Fluorene (D ₁₀ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-1123-0.1	Fluorene (D ₁₀ ,98%)	0.1 g
CIL-DLM-1123-1	Fluorene (D ₁₀ ,98%)	1 g
CIL-CLM-3596-1.2	Fluorene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
U-RAH-043	Fluorene, 1-methyl	100 mg
U-RAH-033	9-Fluorenone	100 mg
	Hexabenzobenzene see Coronene	
U-RAH-065	Indane	100 mg
U-RAH-034	1,3-Indanedione	100 mg
U-RAH-035	Indene	100 mg
BCR-267	Indeno[1,2,3-cd]fluoranthene	20 mg
U-RAH-077	Indeno[1,2,3-cd]pyrene	5 mg
CERERI-001	Indeno[1,2,3-cd]pyrene	25 mg
CERERI-010S	Indeno[1,2,3-cd]pyrene 1000 µg/mL in Methylene chloride	1.2 mL
U-P-730-1	Indeno[1,2,3-cd]pyrene 100 µg/mL in Methylene chloride	1 mL

Polycyclic aromatic compounds

Code	Product	Unit
U-P-730	Indeno[1,2,3-cd]pyrene 100 µg/mL in Methylene chloride	4 x 1 mL
NE5051	Indeno[1,2,3-cd]pyrene 100 µg/mL in Acetonitrile CERTAN®	1.5 mL
CIL-DLM-2148-1.2	Indeno[1,2,3-cd]pyrene (D ₁₂ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-2148-0.01	Indeno[1,2,3-cd]pyrene (D ₁₂ ,98%)	0.01 g
CIL-CLM-3600-1.2	Indeno[1,2,3-cd]pyrene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
U-RAH-078	Naphthacene	10 mg
	alpha-Naphthacridine see Benzo(c)acridine	
U-RAH-080	Naphthalene	100 mg
CERERN-003	Naphthalene	250 mg
CHE 158	Naphthalene	1 g
U-P-740-1	Naphthalene 100 µg/mL in Methanol	1 mL
U-P-740	Naphthalene 100 µg/mL in Methanol	4 x 1 mL
U-EPA-1134	Naphthalene 5000 µg/mL in Methanol	1 mL
CERERN-012S	Naphthalene, 5000 µg/mL in Methanol	1.2 mL
CIL-DLM-365-1.2	Naphthalene (D ₈ ,99%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-365-1	Naphthalene (D ₈ ,99%)	1 g
CIL-DLM-365-5	Naphthalene (D ₈ ,99%)	5 g
CIL-DLM-365-10	Naphthalene (D ₈ ,99%)	10 g
CIL-CLM-1332-1.2	Naphthalene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
U-RAH-017	Naphthalene, decahydro (mixture of isomers)	100 mg
U-RAH-074	Naphthalene, cis-decahydro	100 mg
U-RAH-075	Naphthalene, trans-decahydro	100 mg
U-RAH-022	Naphthalene, 1,2-dihydro	100 mg
U-RAH-023	Naphthalene, 1,4-dihydro	100 mg
U-RAH-068	Naphthalene, 1,2-dimethyl	100 mg
U-RAH-066	Naphthalene, 1,3-dimethyl	50 mg
U-RAH-027	Naphthalene, 1,4-dimethyl	100 mg
U-RAH-029	Naphthalene, 1,5-dimethyl	100 mg
U-RAH-028	Naphthalene, 1,6-dimethyl	100 mg
U-RAH-067	Naphthalene, 2,3-dimethyl	100 mg
U-RAH-030	Naphthalene, 2,6-dimethyl	100 mg
U-RAH-097	Naphthalene, 2,7-dimethyl	10 mg
U-RAH-044	Naphthalene, 1-methyl	500 mg
U-RAH-045	Naphthalene, 2-methyl	500 mg
BCR-306	Naphthalene, 1-nitro	10 mg
BCR-307	Naphthalene, 2-nitro	10 mg
U-RAH-099	Naphthalene, 1-phenyl	100 mg
U-RAH-079	Naphthalene, 1,2,3,4-tetrahydro	100 mg
U-RAH-092	Naphthalene, 1,2,3,4-tetraphenyl	10 mg
U-RAH-069	Naphthalene, 2,3,5-trimethyl	10 mg
	Naphtho(1,2,3,4-def)chrysene see Dibenzo(a,e)pyrene	
BCR-312	Naphtho[2,1-b]furan, 2-nitro-7-methoxy	10 mg
	3,4-Naphthophenanthrene see Benzo(c)chrysene	
U-RAH-049	Pentacene	10 mg
U-RAH-050	Perylene	10 mg
U-ATS-150-1	Perylene-D ₁₂ 2000 µg/mL in Methylene chloride	1 mL
U-ATS-150	Perylene-D ₁₂ 2000 µg/mL in Methylene chloride	4 x 1 mL
CIL-DLM-366-1.2	Perylene (D ₁₂ ,98%) 200 µg/mL in Toluene-D ₈	1.2 mL
CIL-DLM-366-0.1	Perylene (D ₁₂ ,98%)	0.1 g
CIL-DLM-366-1	Perylene (D ₁₂ ,98%)	1 g
U-RAH-051	Phenanthrene	100 mg

Polycyclic aromatic compounds

Code	Product	Unit
CERERP-003	Phenanthrene	250 mg
U-P-750-1	Phenanthrene 100 µg/mL in Methylene chloride	1 mL
U-P-750	Phenanthrene 100 µg/mL in Methylene chloride	4 x 1 mL
U-EPA-1154	Phenanthrene 5000 µg/mL in Methanol	1 mL
CERERP-027S	Phenanthrene 5000 µg/mL in Methanol	1.2 mL
CIL-DLM-371-1.2	Phenanthrene (D ₁₀ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-371-0.1	Phenanthrene (D ₁₀ ,98%)	0.1 g
CIL-DLM-371-1	Phenanthrene (D ₁₀ ,98%)	1 g
CIL-CLM-2451-1.2	Phenanthrene (¹³ C ₆ ,99%) 100 µg/mL in Nonane	1.2 mL
U-RAH-085	Phenanthrene, 3,6-dimethyl	10 mg
U-RAH-046	Phenanthrene, 1-methyl	10 mg
	4,5-o-Phenylenefluoranthene see Indeno(1,2,3-cd)fluoranthene peri-Phenylenefluoranthene see Indeno(1,2,3-cd)fluoranthene 2,3-o-Phenyleneperylene see Indeno(1,2,3-cd)perylene	
BCR-168	Picene	10 mg
U-RAH-008	Pyrene	100 mg
BCR-177R	Pyrene	10 mg
CERERP-004	Pyrene	250 mg
U-P-760-1	Pyrene 100 µg/mL in Methylene chloride	1 mL
U-P-760	Pyrene 100 µg/mL in Methylene chloride	4 x 1 mL
U-EPA-1157	Pyrene 1000 µg/mL in Methanol	1 mL
CERERP-034S	Pyrene 1000 µg/mL in Methanol	1.2 mL
NE5063	Pyrene 100 µg/mL in Acetonitrile CERTAN®	1.5 mL
CIL-DLM-155-1.2	Pyrene (D ₁₀ ,98%) 200 µg/mL in Isooctane	1.2 mL
CIL-DLM-155-0.1	Pyrene (D ₁₀ ,98%)	0.1 g
CIL-DLM-155-0.5	Pyrene (D ₁₀ ,98%)	0.5 g
CIL-CLM-3601-1.2	Pyrene (¹³ C ₃ ,99%) 100 µg/mL in Nonane	1.2 mL
BCR-305	Pyrene, 1-nitro	10 mg
U-RAH-054	p-Quaterphenyl	100 mg
U-RAH-100	p-Quinquephenyl	10 mg
U-RAH-055	Rubrene	10 mg
U-RAH-056	o-Terphenyl	100 mg
U-RAH-057	m-Terphenyl	100 mg
U-RAH-058	p-Terphenyl	100 mg
	Tetracene see Naphthacene 5-Thiabenzobenzofluorene see Benzo(b)naphtho(2,3-d)thiophene 7-Thiabenzobenzofluorene see Benzo(b)naphtho(1,2-d)thiophene	
U-RAH-059	Triphenylene	10 mg
BCR-270	Triphenylene	20 mg
CIL-DLM-601-0.1	Triphenylene (D ₁₂ ,98%)	0.1 g
CIL-DLM-601-1	Triphenylene (D ₁₂ ,98%)	1 g
U-RAH-087	Triphenylene, dodecahydro	100 mg
U-RAH-060	Triptycene	10 mg
U-RAH-061	Truxene	100 mg

Code	Product	Unit
PAH kits		
U-FRNH-068	Polynuclear Aromatic Hydrocarbons Kit Each kit contains 5 mg each of twenty compounds. Acenaphthene Anthanthrene Anthracene Benzo[a]anthracene Benzo[a]anthracene-7,12-dione Benzo[ghi]perylene Benzo[e]pyrene Benzo[f]quinoline Carbazole	kit
	Chrysene Coronene Dibenzothiophene Fluoranthene 4,5-Methylenephenanthrene Naphthalene Benzo[a]pyrene Perylene Phenanthrene Pyrene Truxene	

Code	Product	Unit
NE5100	Kit of 1.5 mL each of the 16 EPA PAHs Priority Pollutants in Acetonitrile	kit
NE5001	Acenaphthene, 100 µg/mL in Acetonitrile	1.5 mL
NE5005	Acenaphthylene, 100 µg/mL in Acetonitrile	1.5 mL
NE5009	Anthracene, 100 µg/mL in Acetonitrile	1.5 mL
NE5013	Benzo(a)anthracene, 100 µg/mL in Acetonitrile	1.5 mL
NE5017	Benzo(b)fluoranthene, 100 µg/mL in Acetonitrile	1.5 mL
NE5021	Benzo(k)fluoranthene, 100 µg/mL in Acetonitrile	1.5 mL
NE5025	Benzo(ghi)perylene, 100 µg/mL in Acetonitrile	1.5 mL
NE5029	Benzo(a)pyrene, 100 µg/mL in Acetonitrile	1.5 mL
NE5033	Chrysene, 100 µg/mL in Acetonitrile	1.5 mL
NE5037	Dibenz(a,h)anthracene, 100 µg/mL in Acetonitrile	1.5 mL
NE5041	Fluoranthene, 100 µg/mL in Acetonitrile	1.5 mL
NE5045	Fluorene, 100 µg/mL in Acetonitrile	1.5 mL
NE5049	Indeno(1,2,3-cd)pyrene, 100 µg/mL in Acetonitrile	1.5 mL
NE5053	Naphthalene, 100 µg/mL in Acetonitrile	1.5 mL
NE5057	Phenanthrene, 100 µg/mL in Acetonitrile	1.5 mL
NE5061	Pyrene, 100 µg/mL in Acetonitrile	1.5 mL

PAH multicomponent standard solutions

CIL-ES-4087	US EPA 16 PAH Cocktail (¹³ C,99%) 5 µg/mL of each analyte in Nonane Acenaphthene (¹³ C ₆ ,99%) Acenaphthylene (¹³ C ₆ ,99%) Anthracene (¹³ C ₆ ,99%) Benz(a)anthracene (¹³ C ₆ ,99%) Benzo(b)fluoranthene (¹³ C ₆ ,99%) Benzo(k)fluoranthene (¹³ C ₆ ,99%) Benzo(ghi)perylene (¹³ C ₁₂ ,99%) Benzo(a)pyrene (¹³ C ₆ ,99%)	Chrysene (¹³ C ₆ ,99%) Dibenz(ah)anthracene (¹³ C ₆ ,99%) Fluoranthene (¹³ C ₆ ,99%) Fluorene (¹³ C ₆ ,99%) Indeno(1,2,3-cd)pyrene (¹³ C ₆ ,99%) Naphthalene (¹³ C ₆ ,99%) Phenanthrene (¹³ C ₆ ,99%) Pyrene (¹³ C ₆ ,99%)	1.2 mL
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CIL-ES-2043	'EEC Six' PAH Cocktail 1 µg/mL of each analyte in Benzene (D ₆ ,99.6%) Benzo(b)fluoranthene (D ₁₂ ,98%) Benzo(k)fluoranthene (D ₁₂ ,98%) Benzo(ghi)perylene (D ₁₂ ,98%)	Benzo(a)pyrene (D ₁₂ ,98%) Indeno(1,2,3-cd)pyrene (D ₁₂ ,98%) Fluoranthene (D ₁₀ ,98%)	1 mL
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CIL-ES-2528	PAH Cocktail for CARB 429 method 100 µg/mL of each analyte in Benzene (D ₆ ,99.6%) Acenaphthene (D ₁₀ ,98%) Acenaphthylene (D ₈ ,98%) Anthracene (D ₁₀ ,98%) Benz(a)anthracene (D ₁₂ ,98%) Benzo(b)fluoranthene (D ₁₂ ,98%) Benzo(k)fluoranthene (D ₁₂ ,98%) Benzo(ghi)perylene (D ₁₂ ,99%) Benzo(a)pyrene (D ₁₂ ,98%)	Chrysene (D ₁₂ ,98%) Dibenz(ah)anthracene (D ₁₄ ,98%) Fluoranthene (D ₁₀ ,98%) Fluorene (D ₁₀ ,98%) Indeno(1,2,3-cd)pyrene (D ₁₂ ,98%) Naphthalene (D ₈ ,98%) Phenanthrene (D ₁₀ ,98%) Pyrene (D ₁₀ ,98%)	1 mL
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CIL-ES-2044	PAH Surrogate Cocktail 200 µg/mL of each analyte in 50% Methylene chloride (D ₂ ,99.9%) and 50% Methanol (D ₂ ,99.8%). Acenaphthylene (D ₈ ,98%) Benzo(ghi)perylene (D ₁₂ ,99%) Benzo(a)pyrene (D ₁₂ ,98%) Fluoranthene (D ₁₀ ,98%)	Naphthalene (D ₈ ,98%) Phenanthrene (D ₁₀ ,98%) Pyrene (D ₁₀ ,98%)	1 mL
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New CIL-ES-5164	PAH Surrogate Standard Mix 200 µg/mL of each analyte in 10% Iso-octane / 90% Toluene Naphthalene (D ₈ ,98%) Phenanthrene (D ₁₀ ,98%) Benzo(b)fluoranthene (D ₁₂ ,98%) Benzo(ghi)perylene (D ₁₂ ,99%) Dibenz(ah)anthracene (D ₁₄ ,98%) Acenaphthene (D ₁₀ ,98%) Pyrene (D ₁₀ ,98%) Perylene (D ₁₂ ,98%)	Benz(a)anthracene (D ₁₂ ,98%) Fluoranthene (D ₁₀ ,98%) Benzo(a)pyrene (D ₁₂ ,98%) Indeno(1,2,3-cd)pyrene (D ₁₂ ,98%) Acenaphthylene (D ₈ ,98%) Fluorene (D ₁₀ ,98%) Benzo(k)fluoranthene (D ₁₂ ,98%) Chrysene (D ₁₂ ,98%)	10 mL
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Polycyclic aromatic compounds

Code	Product	Unit
New ERM-AC213	PAHs in acetonitrile/toluene	2 mL
	Certified values	
	Benzo(a)anthracene 3.09 ± 0.04 µg/g	Dibenz(a,h)anthracene..... 2.76 ± 0.05 µg/g
	Chrysene..... 3.06 ± 0.05 µg/g	Benzo(ghi)perylene 3.07 ± 0.05 µg/g
	5-Methylchrysene..... 3.08 ± 0.07 µg/g	Dibenz(a,l)pyrene..... 3.08 ± 0.10 µg/g
	Benzo(b)fluoranthene 3.05 ± 0.05 µg/g	Dibenz(a,e)pyrene..... 2.97 ± 0.010 µg/g
	Benzo(k)fluoranthene 3.06 ± 0.08 µg/g	
	Benzo(j)fluoranthene..... 3.05 ± 0.10 µg/g	
	Indicative values for Benzo(c)fluorene, Cyclopenta(cd)pyrene and Dibenzo(a,i)pyrene	

Code	Product	Unit	
NIST-1647e	Priority pollutant PAHs in acetonitrile	5 x 1.2 mL	
	Certified concentrations		
	Compound	Mass fraction mg/kg	Concentration mg/L (at 23 ± 2°C)
	Naphthalene	25.84 ± 0.33.....	19.85 ± 0.45
	Acenaphthylene	19.96 ± 0.47.....	15.34 ± 0.37
	Acenaphthene.....	26.23 ± 0.60.....	20.50 ± 0.47
	Fluorene.....	6.09 ± 0.14.....	4.74 ± 0.11
	Phenanthrene	4.52 ± 0.11.....	3.52 ± 0.09
	Anthracene	1.01 ± 0.02.....	0.79 ± 0.02
	Fluoranthene.....	9.73 ± 0.21.....	7.58 ± 0.16
	Pyrene.....	10.88 ± 0.22.....	8.47 ± 0.17
	Benzo(a)anthracene	5.25 ± 0.11.....	4.09 ± 0.09
	Chrysene.....	4.62 ± 0.10.....	3.60 ± 0.08
	Benzo(b)fluoranthene	5.38 ± 0.11.....	4.19 ± 0.09
	Benzo(k)fluoranthene	6.02 ± 0.13.....	4.69 ± 0.10
	Benzo(a)pyrene	6.25 ± 0.15.....	4.87 ± 0.12
	Dibenzo(a,h)anthracene	4.48 ± 0.26.....	3.49 ± 0.20
	Benzo(ghi)perylene	4.71 ± 0.17.....	3.67 ± 0.13
	Indeno(1,2,3-cd)pyrene.....	5.48 ± 0.17.....	4.27 ± 0.13
	The µg/mL values were calculated from the mass fraction values using the density of acetonitrile at 23°C (0.7789 g/mL).		

Code	Product	Unit		
NIST-2260a	PAHs in Toluene	5 x 1.2 mL		
	Certified values			
		CAS Registry No.	µg/g	µg/mL
	Naphthalene	91-20-3	11.43 ± 0.30	9.89 ± 0.26
	Biphenyl	92-52-4	5.61 ± 0.14	4.85 ± 0.12
	Acenaphthylene	208-96-8	6.26 ± 0.20	5.41 ± 0.17
	Acenaphthene.....	83-32-9	5.55 ± 0.13	4.80 ± 0.11
	Fluorene.....	86-73-7	4.71 ± 0.11	4.07 ± 0.10
	Dibenzothiophene.....	132-65-0	4.39 ± 0.17	3.80 ± 0.15
	Phenanthrene	85-01-8	11.57 ± 0.12	10.01 ± 0.10
	Anthracene	120-12-7	3.736 ± 0.054	3.231 ± 0.047
	4H-Cyclopenta[def]phenanthrene.....	203-64-5	2.32 ± 0.11	2.01 ± 0.10
	Fluoranthene.....	206-44-0	8.324 ± 0.087	7.200 ± 0.075
	Pyrene.....	129-00-0	8.949 ± 0.083	7.741 ± 0.072
	Benzo(ghij)fluoranthene.....	203-12-3	3.414 ± 0.045	2.953 ± 0.039
	Cyclopenta[cd]pyrene	27208-37-3	1.958 ± 0.024	1.694 ± 0.021
	Benzo[c]phenanthrene.....	195-19-7	4.608 ± 0.036	3.986 ± 0.031
	Benzo[a]anthracene.....	56-55-3	4.415 ± 0.078	3.819 ± 0.067
	Chrysene.....	218-01-9	4.62 ± 0.11	4.00 ± 0.10
	Triphenylene	217-59-4	4.12 ± 0.16	3.56 ± 0.14
	Benzo[b]fluoranthene.....	205-99-2	7.86 ± 0.10	6.80 ± 0.09
	Benzo[j]fluoranthene.....	205-82-3	4.145 ± 0.097	3.585 ± 0.084
	Benzo[k]fluoranthene.....	207-08-9	3.444 ± 0.036	2.979 ± 0.031
	Benzo[a]fluoranthene.....	203-33-8	2.279 ± 0.064	1.971 ± 0.055
	Benzo[e]pyrene.....	192-97-2	4.561 ± 0.054	3.945 ± 0.047
	Benzo[a]pyrene.....	50-32-8	4.71 ± 0.17	4.07 ± 0.15
	Perylene.....	198-55-0	4.430 ± 0.045	3.83 ± 0.039
	Indeno[1,2,3-cd]pyrene	193-39-5	4.425 ± 0.030	3.828 ± 0.026
	Benzo(ghil)perylene	191-24-2	5.669 ± 0.069	4.904 ± 0.060
	Dibenz[a,h]anthracene.....	53-70-3	4.555 ± 0.063	3.940 ± 0.054
	Dibenz[a,c]anthracene.....	215-58-7	2.912 ± 0.026	2.519 ± 0.022
	Dibenz[a,j]anthracene.....	224-41-9	4.539 ± 0.062	3.926 ± 0.054
	Picene.....	213-46-7	3.257 ± 0.047	2.817 ± 0.041
	Benzo[b]chrysene	214-17-5	4.092 ± 0.033	3.540 ± 0.029
	Anthanthrene	191-26-4	2.205 ± 0.029	1.907 ± 0.025
	Coronene	191-07-1	2.255 ± 0.033	1.951 ± 0.029
	Dibenzo[a,h]pyrene.....	189-64-0	2.911 ± 0.095	2.518 ± 0.082
	Dibenzo[b,k]fluoranthene.....	205-97-0	1.646 ± 0.068	1.424 ± 0.059
	Dibenzo[a,e]pyrene.....	192-65-4	2.277 ± 0.023	1.970 ± 0.02

Polycyclic aromatic compounds

Code	Product	Unit																																																																												
NIST-1597a	Complex mixture of PAHs from coal tar in Toluene This Standard Reference Material (SRM [®]) is a natural, combustion-related mixture of polycyclic aromatic hydrocarbons (PAHs) isolated from a coal tar sample and dissolved in toluene. NIST-1597a is intended for use in the evaluation and validation of analytical methods for the determination of PAHs. It is suitable for direct analysis (i.e., without sample cleanup or concentration) in the determination of PAHs using analytical techniques such as gas chromatography (GC), liquid chromatography (LC), or gas chromatography/mass spectrometry (GC/MS). This SRM [®] may also be used to evaluate procedures for measurement of mutagenic activity of combustion-related mixtures of PAHs and related compounds. Certified concentrations for selected PAHs in NIST-1597a	3 x 1.3 mL																																																																												
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U-PM-006	PAH Mixture	4 x 1 mL																																																																												
DE-PAH-7	Six PAHs in Acetonitrile Solvent: Acetonitrile	3 x 1.5 mL																																																																												
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Polycyclic aromatic compounds

Code	Product	Unit
NE5107	EEC Six PAHs in Acetonitrile CERTAN® Concentration: each of the following at 10 µg/mL Indeno(1,2,3-cd)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene Fluoranthene Benzo(k)fluoranthene	4.5 mL
U-PM-007-1	PAH Mixture Benzo(b)fluoranthene 10 µg/mL Fluoranthene 10 µg/mL Benzo(k)fluoranthene 10 µg/mL Indeno(1,2,3-cd)pyrene 10 µg/mL Benzo(ghi)perylene 10 µg/mL Perylene 5 µg/mL Benzo(a)pyrene 10 µg/mL	1 mL
U-PM-007	PAH Mixture	4 x 1 mL
U-JTB-0005	PAH 16 Calibration Mix Solvent: Acetonitrile Naphthalene 20.0 µg/mL Benz[a]anthracene 4.0 µg/mL Acenaphthylene 15.0 µg/mL Chrysene 3.5 µg/mL Acenaphthene 20.0 µg/mL Benzo[b]fluoranthene 4.0 µg/mL Fluorene 5.0 µg/mL Benzo(k)fluoranthene 4.5 µg/mL Phenanthrene 3.5 µg/mL Benzo[a]pyrene 5.0 µg/mL Anthracene 0.8 µg/mL Dibenzo[a,h]anthracene 3.5 µg/mL Fluoranthene 8.0 µg/mL Benzo[ghi]perylene 3.5 µg/mL Pyrene 8.5 µg/mL Indeno[1,2,3-cd]pyrene 4.5 µg/mL	1 mL
New U-JTB-0005-4	PAH 16 Calibration Mix	4 x 1 mL
U-PM-613A-1	PAH Mixture Solvent: Acetonitrile Acenaphthene 100 µg/mL Acenaphthylene 100 µg/mL Chrysene 10 µg/mL Anthracene 100 µg/mL Dibenzo(a,h)anthracene 10 µg/mL Benzo(a)anthracene 10 µg/mL Fluoranthene 10 µg/mL Fluorene 100 µg/mL Benzo(b)fluoranthene 10 µg/mL Indeno(1,2,3-cd)pyrene 10 µg/mL Benzo(k)fluoranthene 5 µg/mL Naphthalene 100 µg/mL Benzo(ghi)perylene 10 µg/mL Phenanthrene 100 µg/mL Benzo(a)pyrene 10 µg/mL Pyrene 10 µg/mL	1 mL
U-PM-613A	PAH Mixture	4 x 1 mL
U-PM-831A-1	PAH Mixture Solvent: Acetonitrile/Methanol (9:1) Acenaphthene 1000 µg/mL Chrysene 50 µg/mL Acenaphthylene 500 µg/mL Dibenzo(a,h)anthracene 200 µg/mL Anthracene 20 µg/mL Fluoranthene 50 µg/mL Benzo(a)anthracene 50 µg/mL Fluorene 100 µg/mL Benzo(b)fluoranthene 20 µg/mL Indeno(1,2,3-cd)pyrene 50 µg/mL Benzo(k)fluoranthene 20 µg/mL Naphthalene 500 µg/mL Benzo(ghi)perylene 80 µg/mL Phenanthrene 40 µg/mL Benzo(a)pyrene 50 µg/mL Pyrene 100 µg/mL	1 mL
U-PM-831A	PAH Mixture	4 x 1 mL
U-US-106N	PAH Mixture 2000 µg/mL of each analyte in Methylene chloride/Benzene (1:1) Acenaphthene Benzo(b)fluoranthene Chrysene Indeno(1,2,3-cd)pyrene Acenaphthylene Benzo(k)fluoranthene Dibenzo(a,h)anthracene Naphthalene Anthracene Benzo(ghi)perylene Fluoranthene Phenanthrene Benzo(a)anthracene Benzo(a)pyrene Fluorene Pyrene	1 mL
U-US-106N-4	PAH Mixture	4 x 1 mL
U-PM-831-1	PAH Mixture 500 µg/mL of each analyte in Acetonitrile/Acetone/Toluene (6:3:1) Acenaphthene Benzo(b)fluoranthene Chrysene Indeno(1,2,3-cd)pyrene Acenaphthylene Benzo(k)fluoranthene Dibenzo(a,h)anthracene Naphthalene Anthracene Benzo(ghi)perylene Fluoranthene Phenanthrene Benzo(a)anthracene Benzo(a)pyrene Fluorene Pyrene	1 mL
U-PM-831	PAH Mixture	4 x 1 mL
U-US-126	PAH Mixture 2000 µg/mL of each analyte in Methylene chloride/Benzene (1:1) Acenaphthene Benzo(k)fluoranthene Dibenzo(a,h)anthracene Phenanthrene Acenaphthylene Benzo(ghi)perylene Fluoranthene Pyrene Anthracene Benzo(a)pyrene Fluorene Benzo(a)anthracene Carbazole Indeno(1,2,3-cd)pyrene Benzo(b)fluoranthene Chrysene Naphthalene	1 mL
CERERS-009	PAH Standard Solution 100 µg/mL of each analyte in Acetonitrile Acenaphthene Benzo(b)fluoranthene Chrysene Indeno(1,2,3-cd)pyrene Acenaphthylene Benzo(k)fluoranthene Dibenzo(a,h)anthracene Naphthalene Anthracene Benzo(ghi)perylene Fluoranthene Phenanthrene Benzo(a)anthracene Benzo(a)pyrene Fluorene Pyrene	1.2 mL

Polycyclic aromatic compounds

Code	Product	Unit																												
DE-PROM 16	16 EPA Priority PAH Pollutants Mixture CERTAN® 100 µg/mL of each analyte in Toluene	4.5 mL																												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">Acenaphthene</td> <td style="width: 25%;">Benzo(b)fluoranthene</td> <td style="width: 25%;">Chrysene</td> <td style="width: 25%;">Indeno(1,2,3-cd)pyrene</td> </tr> <tr> <td>Acenaphthylene</td> <td>Benzo(k)fluoranthene</td> <td>Dibenzo(a,h)anthracene</td> <td>Naphthalene</td> </tr> <tr> <td>Anthracene</td> <td>Benzo(ghi)perylene</td> <td>Fluoranthene</td> <td>Phenanthrene</td> </tr> <tr> <td>Benzo(a)anthracene</td> <td>Benzo(a)pyrene</td> <td>Fluorene</td> <td>Pyrene</td> </tr> </table>	Acenaphthene	Benzo(b)fluoranthene	Chrysene	Indeno(1,2,3-cd)pyrene	Acenaphthylene	Benzo(k)fluoranthene	Dibenzo(a,h)anthracene	Naphthalene	Anthracene	Benzo(ghi)perylene	Fluoranthene	Phenanthrene	Benzo(a)anthracene	Benzo(a)pyrene	Fluorene	Pyrene													
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NE5105	27 PAHs Mixture for Emission Control after Sporenberg CERTAN® 10 µg/mL of each analyte in Toluene	10 mL																												
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SL30010	PAH - Mix 15 CERTAN® According to EU recommendation about the determination of carcinogenic PAHs in food (2005/108/EC) 10 µg/mL of each analyte in Acetonitrile	1.5 mL																												
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SL30015	PAH - Mix 15	1.5 mL																												
SL30000	PAH - Mix 15 CERTAN®	4.5 mL																												
SL30005	PAH - Mix 15	5 mL																												
NIST-2269	Perdeuterated PAH-I solution in Hexane/Toluene Certified concentrations	5 x 1.2 mL																												
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NIST-2270	Perdeuterated PAH-II solution in Hexane/Toluene Certified concentrations for deuterated PAHs in NIST-2270	5 x 1.2 mL																												
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U-ISM-560-1	Semi-Volatiles Internal Standard Mixture 2000 µg/mL of each analyte in Methylene chloride.	1 mL																												
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U-ISM-560	Semi-Volatiles Internal Standard Mixture	4 x 1 mL																												
New U-ISM-750-1	Deuterated PAH Mixture 7 Analytes 200 µg/mL in Methylene chloride	1 mL																												
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