

# PAHs & Derivatives

Individual PAHs &amp; Derivatives (in 1 mL of solvent, unless otherwise noted)

PAHs & DERIVATIVES	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.
Acenaphthene	83-32-9	100 mg	Neat	H-108N
		50 µg/mL	Toluene	H-108S
		100 µg/mL	MeOH	APP-9-001
		0.2 mg/mL	MeOH	Z-013-01
		0.5 mg/mL	AcCN	M-8310-FL-01
Acenaphthene-d <sub>10</sub>	15067-26-2	1 mg/mL	MeOH	APP-9-001-10X
		5 mg/mL	MeOH	AS-E0001
		500 µg/mL	MeOH	M-548.1-IS
		4 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-014J-1
		Acenaphthylene	208-96-8	100 mg
100 µg/mL	MeOH			APP-9-002
50 µg/mL	Toluene			H-125S
0.2 mg/mL	MeOH			Z-013-02
0.5 mg/mL	AcCN			M-8310-FL-02
2-Acetamidofluorene	53-96-3	1 mg/mL	MeOH	APP-9-002-10X
		5 mg/mL	MeOH	AS-E0075
		10 mg	Neat	R-058N
		100 µg/mL	Toluene	R-058S
		100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-006
Acridine	260-94-6	100 mg	Neat	H-187N
1-Aminoanthracene	610-49-1	50 mg	Neat	R-059N
		100 µg/mL	Toluene	R-059S
2-Aminoanthracene	613-13-8	50 mg	Neat	R-060N
		100 µg/mL	Toluene	R-060S
1-Aminoanthraquinone	82-45-1	50 mg	Neat	R-061N
		100 µg/mL	Toluene	R-061S
2-Aminoanthraquinone	117-79-3	10 mg	Neat	R-093N
6-Aminochrysene	2642-98-0	10 mg	Neat	R-065N
		100 µg/mL	Toluene	R-065S
2-Aminofluorene	153-78-6	10 mg	Neat	R-066N
		100 µg/mL	Toluene	R-066S
1-Aminonaphthalene	134-32-7	50 mg	Neat	R-067N
		100 µg/mL	Toluene	R-067S
		100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-138
		1 mg/mL	MeOH	AS-E0419
2-Aminonaphthalene	91-59-8	10 mg	Neat	R-084N
		100 µg/mL	Toluene	R-084S
		100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-139
		1 mg/mL	MeOH	AS-E0565
1-Amino-4-nitronaphthalene	776-34-1	100 mg	Neat	R-001N
		100 µg/mL	Toluene	R-001S
Anthanthrene	191-26-4	10 mg	Neat	H-109N
		50 µg/mL	Toluene	H-109S
Anthracene	120-12-7	100 mg	Neat	H-110N
		50 µg/mL	Toluene	H-110S
		100 µg/mL	MeOH	APP-9-013
		0.2 mg/mL	MeOH	Z-013-03
		0.5 mg/mL	AcCN	M-8310-FL-03
		1 mg/mL	MeOH	APP-9-013-10X
Anthracene-d <sub>10</sub>	1719-06-8	1 mg/mL	Acetone	AS-E0076
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625-02
		2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-001N
Azulene	275-51-4	100 mg	Neat	H-127N
		50 µg/mL	Toluene	H-127S
2,3-Benzanthracene	92-24-0	100 mg	Neat	H-159N
		50 µg/mL	Toluene	H-159S
Benz(a)anthracene	56-55-3	10 mg	Neat	H-100N
		50 µg/mL	Toluene	H-100S
		100 µg/mL	MeOH	APP-9-016
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-013-04
		0.5 mg/mL	AcCN	M-8310-FL-04
		1 mg/mL	MeOH	APP-9-016-10X
Benz(a)anthracene-7,12-dione	2498-66-0	1 mg/mL	MeOH	AS-E0070
		10 mg	Neat	H-111N
		50 µg/mL	Toluene	H-111S
Benz(a)anthracene-d <sub>12</sub>	1718-53-2	0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625-03
		2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625-03-10X
Benzidine	92-87-5	10 mg	Neat	R-073N
		100 µg/mL	Toluene	R-073S
Benzo(b)chrysene	214-17-5	10 mg	Neat	H-183N
		50 µg/mL	Toluene	H-183S
Benzo(b)fluoranthene	205-99-2	10 mg	Neat	H-128N
		50 µg/mL	Toluene	H-128S
		100 µg/mL	MeOH	APP-9-017
		0.2 mg/mL	MeOH	Z-013-06
		0.5 mg/mL	AcCN	M-8310-FL-06
		1 mg/mL	MeOH	APP-9-017-10X
Benzo(j)fluoranthene	205-82-3	2.5 mg/mL	Acetone	AS-E0072
		10 mg	Neat	H-171N
		50 µg/mL	Toluene	H-171S

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Benzo(k)fluoranthene	207-08-9	10 mg	Neat	H-129N
		50 µg/mL	Toluene	H-129S
		100 µg/mL	MeOH	APP-9-018
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-013-08
		0.5 mg/mL	AcCN	M-8310-FL-08
		1 mg/mL	Acetone	AS-E0073
1,2-Benzofluorene	238-84-6	50 µg/mL	Toluene	H-130S
		2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-018-D-20X
2,3-Benzofluorene	243-17-4	10 mg	Neat	H-180N
		50 µg/mL	Toluene	H-180S
2,3-Benzofuran	271-89-6	10 mg	Neat	H-237N
		50 µg/mL	Toluene	H-237S
Benzo(g,h,i)perylene	191-24-2	10 mg	Neat	H-103N
		50 µg/mL	Toluene	H-103S
		100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-019
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-013-07
		0.5 mg/mL	AcCN	M-8310-FL-07
		1 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-019-10X
Benzo(g,h,i)perylene- <sup>13</sup> C <sub>12</sub>	195-19-7	0.1 mg/mL	Acetone	AS-E0199
		10 mg	Neat	H-244N
Benzo(c)phenanthrene	50-32-8	50 µg/mL	Toluene	H-244S
		10 mg	Neat	H-169N
Benzo(a)pyrene (Ames Grade)	50-32-8	50 µg/mL	Toluene	H-169S
		100 µg/mL	MeOH	APP-9-020
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-013-05
		0.5 mg/mL	AcCN	M-8310-FL-05
		1 mg/mL	Acetone	AS-E0071
		2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-020-D-20X
Benzo(e)pyrene	192-97-2	10 mg	Neat	H-112N
		50 µg/mL	Toluene	H-112S
5,6-Benzoquinoline	85-02-9	10 mg	Neat	H-113N-10MG
		50 µg/mL	Toluene	H-113S
7,8-Benzoquinoline	230-27-3	100 mg	Neat	H-245N
		50 µg/mL	Toluene	H-245S
2,2'-Binaphthyl	612-78-2	50 mg	Neat	H-239N
		50 µg/mL	Toluene	H-239S
Carbazole	86-74-8	100 mg	Neat	H-114N
		50 µg/mL	Toluene	H-114S
		1 mg/mL	MeOH	M-634-IS
p-Chloro-m-cresol (4-Chloro-3-methyl phenol)		5 mg/mL	MeOH	AS-E0020
1-Chloronaphthalene	90-13-1	100 mg	Neat	N-001N
2-Chloronaphthalene	91-58-7	100 mg	Neat	N-002N
		100 µg/mL	MeOH	APP-9-045
		5 mg/mL	MeOH	AS-E0018
Chrysene	218-01-9	100 mg	Neat	H-115N
		50 µg/mL	Toluene	H-115S
		100 µg/mL	MeOH	APP-9-049
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-013-09
		0.5 mg/mL	AcCN	M-8310-FL-09
		1 mg/mL	Acetone	AS-E0074
Chrysene-d <sub>12</sub>	1719-03-5	2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-049-D-20X
		0.2 mg/mL	Toluene	M-680B
Coronene	191-07-1	4 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-014J-2
		5 mg	Neat	H-116N
		50 µg/mL	Toluene	H-116S
Cyclopenta(c,d)pyrene	27208-37-3	50 µg/mL	Toluene	H-242S
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	10 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-680-TS
		25 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625C-3
		25 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625C-3-1000X
		50 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625C-3-2X
		50 µg/mL	Acetone	M-1653-TS
		0.1 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-525-TS
Decafluorotriphenylphosphine oxide (DFTPPO)	5594-90-1	0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	CLP-033
		0.1 mg/mL	AcCN	M-553-PC
1,8-Diaminonaphthalene	429-27-6	100 mg	Neat	R-069N
		100 µg/mL	Toluene	R-069S
2,7-Diaminofluorene	525-64-4	10 mg	Neat	R-068N
		100 µg/mL	Toluene	R-068S
1,2:3,4-Dibenzanthracene	215-58-7	10 mg	Neat	H-134N
		50 µg/mL	Toluene	H-134S
1,2:8,9-Dibenzpentacene	227-09-8	10 mg	Neat	H-139N
		50 µg/mL	Toluene	H-139S
Dibenz(a,h)acridine	226-36-8	10 mg	Neat	H-172N
		50 µg/mL	Toluene	H-172S
Dibenz(a,h)anthracene	53-70-3	10 mg	Neat	H-135N
		50 µg/mL	Toluene	H-135S
		100 µg/mL	MeOH	APP-9-058
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-013-10
		0.5 mg/mL	AcCN	M-8310-FL-10
		1 mg/mL	p-Dioxane	AS-E0231
2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	H-135S-D-40X		

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Dibenz(a,j)acridine	224-42-0	10 mg	Neat	H-173N
		50 µg/mL	Toluene	H-173S
7H-Dibenzo(c,g)carbazole	194-59-2	50 µg/mL	Toluene	H-176S
Dibenzo(a,e)fluoranthene	5385-75-1	50 µg/mL	Toluene	H-247S
Dibenzo(a,e)pyrene	192-65-4	10 mg	Neat	H-138N
		50 µg/mL	Toluene	H-138S
Dibenzo(a,h)pyrene	189-64-0	10 mg	Neat	H-177N
		50 µg/mL	Toluene	H-177S
Dibenzo(a,i)pyrene	189-55-9	5 mg	Neat	H-178N
		50 µg/mL	Toluene	H-178S
Dibenzo(a,l)pyrene	191-30-0	5 mg	Neat	H-179N
		50 µg/mL	Toluene	H-179S
Dibenzothiophene	132-65-0	100 mg	Neat	H-117N
		50 µg/mL	Toluene	H-117S
1,4-Dichloronaphthalene	1825-31-6	10 mg	Neat	N-004N
4,4'-Difluorobiphenyl	398-23-2	0.1 mg/mL	AcCN	M-550-IS
9,10-Dihydroanthracene	613-31-0	100 mg	Neat	H-140N
		50 µg/mL	Toluene	H-140S
12,12A-Dihydro-3,9-Dimethylbenz(a)anthracene		50 µg/mL	Toluene	H-188S
Diindeno(1,2,3-cd-1',2',3'-lm)perylene	188-94-3	50 µg/mL	Toluene	H-141S
1,12-Dimethylbenzo(c)phenanthrene		50 µg/mL	Toluene	H-193S
1,2-Dimethylnaphthalene	573-98-8	10 mg	Neat	H-197N
		50 µg/mL	Toluene	H-197S
1,3-Dimethylnaphthalene	575-41-7	10 mg	Neat	H-198N
		50 µg/mL	Toluene	H-198S
1,4-Dimethylnaphthalene	571-58-4	10 mg	Neat	H-199N
		50 µg/mL	Toluene	H-199S
1,5-Dimethylnaphthalene	571-61-9	10 mg	Neat	H-200N
		50 µg/mL	Toluene	H-200S
1,6-Dimethylnaphthalene	575-43-9	10 mg	Neat	H-201N
		50 µg/mL	Toluene	H-201S
1,8-Dimethylnaphthalene	569-41-5	10 mg	Neat	H-202N
		50 µg/mL	Toluene	H-202S
2,3-Dimethylantracene	613-06-9	10 mg	Neat	H-189N
		50 µg/mL	Toluene	H-189S
2,6-Dimethylnaphthalene	581-42-0	10 mg	Neat	H-161N
		50 µg/mL	Toluene	H-161S
2,7-Dimethylnaphthalene	582-16-1	10 mg	Neat	H-203N
		50 µg/mL	Toluene	H-203S
3,6-Dimethylphenanthrene	1576-67-6	5 mg	Neat	H-142N-5MG
		50 µg/mL	Toluene	H-142S
3,9-Dimethylbenz(a)anthracene	316-51-8	50 µg/mL	Toluene	H-191S
5,8-Dimethylbenzo(c)phenanthrene	54886-63-9	50 µg/mL	Toluene	H-194S
6,8-Dimethylbenz(a)anthracene	317-64-6	50 µg/mL	Toluene	H-192S
7,10-Dimethylbenzo(a)pyrene	63104-33-6	50 µg/mL	Toluene	H-195S
7,12-Dimethylbenz(a)anthracene	57-97-6	10 mg	Neat	H-174N
		50 µg/mL	Toluene	H-174S
		100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-084
		1 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	AS-E0567
9,10-Dimethylantracene	781-43-1	2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-084-20X
		10 mg	Neat	H-190N
		50 µg/mL	Toluene	H-190S
1,3-Dinitronaphthalene	606-37-1	100 mg	Neat	R-029N
		100 µg/mL	Toluene	R-029S
1,3-Dinitropyrene	75321-20-9	5 mg	Neat	R-094N
		100 µg/mL	Toluene	R-094S
1,5-Dinitronaphthalene	605-71-0	100 mg	Neat	R-030N
		100 µg/mL	Toluene	R-030S
1,6-Dinitropyrene	42397-64-8	5 mg	Neat	R-032N
		100 µg/mL	Toluene	R-032S
1,8-Dinitronaphthalene	602-38-0	100 mg	Neat	R-031N
		100 µg/mL	Toluene	R-031S
1,8-Dinitropyrene	42397-65-9	100 µg/mL	Toluene	R-099S
2,7-Dinitro-9-fluorenone	31551-45-8	100 mg	Neat	R-028N
		100 µg/mL	Toluene	R-028S
2,7-Dinitrofluorene	5405-53-8	100 mg	Neat	R-027N
		100 µg/mL	Toluene	R-027S
2,8-Dinitrodibenzothiophene	109041-38-5	5 mg	Neat	R-026N
		100 µg/mL	Toluene	R-026S
9,10-Dinitroanthracene	33685-60-8	5 mg	Neat	R-024N
		100 µg/mL	Toluene	R-024S
1,2-Diphenylhydrazine	122-66-7	100 mg	Neat	R-070N
		100 µg/mL	Toluene	R-070S
9,10-Diphenylantracene	1499-10-1	100 mg	Neat	H-185N
		50 µg/mL	Toluene	H-185S
Dodecahydrotriphenylene	1610-39-5	100 mg	Neat	H-144N
		50 µg/mL	Toluene	H-144S
6-Ethylchrysene	2732-58-3	10 mg	Neat	H-264N
1-Fluoronaphthalene	321-38-0	0.1 mg/mL	Acetone	AS-E0195
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625-10
2-Fluorobiphenyl	321-60-8	0.1 mg/mL	Acetone	AS-E0194
2-Fluoronaphthalene	323-09-1	0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625-11

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Fluoranthene	206-44-0	100 mg	Neat	H-118N
		50 µg/mL	Toluene	H-118S
		100 µg/mL	MeOH	APP-9-108
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-013-11
		0.5 mg/mL	AcCN	M-8310-FL-11
Fluorene	86-73-7	5 mg/mL	MeOH	AS-E0037
		100 mg	Neat	H-146N
		50 µg/mL	Toluene	H-146S
		100 µg/mL	MeOH	APP-9-109
		0.2 mg/mL	MeOH	Z-013-12
1-Hydroxypyrene	5315-79-7	0.5 mg/mL	AcCN	M-8310-FL-12
		1 mg/mL	MeOH	APP-9-109-10X
		5 mg/mL	MeOH	AS-E0078
		10 mg	Neat	R-096N
		100 µg/mL	Toluene	R-096S
6-Hydroxychrysene	37515-51-8	10 mg	Neat	R-095N
		100 µg/mL	Toluene	R-095S
Indan	496-11-7	100 mg	Neat	H-231N
		50 µg/mL	Toluene	H-231S
Indene	95-13-6	100 mg	Neat	H-230N
		50 µg/mL	Toluene	H-230S
Indeno(1,2,3-cd)pyrene	193-39-5	10 mg	Neat	H-157N
		50 µg/mL	Toluene	H-157S
		100 µg/mL	MeOH	APP-9-119
		0.2 mg/mL	MeOH	Z-013-13
		0.5 mg/mL	AcCN	M-8310-FL-13
		0.5 mg/mL	Acetone	AS-E0081
Indole	120-72-9	2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	H-157S-D-40X
		100 mg	Neat	H-236N
		50 µg/mL	Toluene	H-236S
Isoquinoline	119-65-3	100 mg	Neat	H-232N
		50 µg/mL	Toluene	H-232S
1-Methylanthracene	610-48-0	10 mg	Neat	H-222N
		50 µg/mL	Toluene	H-222S
2-Methylanthracene	613-12-7	10 mg	Neat	H-148N
		50 µg/mL	Toluene	H-148S
9-Methylanthracene	779-02-2	10 mg	Neat	H-149N
		50 µg/mL	Toluene	H-149S
1-Methylbenz(a)anthracene	2498-77-3	50 µg/mL	Toluene	H-213S
2-Methylbenz(a)anthracene	2498-76-2	50 µg/mL	Toluene	H-214S
3-Methylbenz(a)anthracene	2498-75-1	50 µg/mL	Toluene	H-215S
4-Methylbenz(a)anthracene	316-49-4	50 µg/mL	Toluene	H-216S
5-Methylbenz(a)anthracene	2319-96-2	50 µg/mL	Toluene	H-217S
6-Methylbenz(a)anthracene	316-14-3	50 µg/mL	Toluene	H-218S
7-Methylbenz(a)anthracene	2541-69-7	50 µg/mL	Toluene	H-219S
9-Methylbenz(a)anthracene	2381-16-0	50 µg/mL	Toluene	H-220S
10-Methylbenz(a)anthracene	2381-15-9	50 µg/mL	Toluene	H-221S
1-Methylbenzo(c)phenanthrene	4076-39-5	50 µg/mL	Toluene	H-208S
2-Methylbenzo(c)phenanthrene	2606-85-1	50 µg/mL	Toluene	H-209S
3-Methylbenzo(c)phenanthrene	2381-19-3	50 µg/mL	Toluene	H-210S
4-Methylbenzo(c)phenanthrene	4076-40-8	50 µg/mL	Toluene	H-211S
5-Methylbenzo(c)phenanthrene	652-04-0	50 µg/mL	Toluene	H-212S
7-Methylbenzo(a)pyrene	63041-77-0	10 mg	Neat	H-223N
		50 µg/mL	Toluene	H-223S
		50 µg/mL	Toluene	H-205S
9-Methylbenzo(a)pyrene	70644-19-8	50 µg/mL	Toluene	H-206S
10-Methylbenzo(a)pyrene	63104-32-5	50 µg/mL	Toluene	H-207S
3-Methylcholanthrene	56-49-5	10 mg	Neat	H-170N
		50 µg/mL	Toluene	H-170S
		100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-128
4-Methylchrysene	3351-30-2	50 µg/mL	Toluene	H-228S
6-Methylchrysene	1705-85-7	10 mg	Neat	H-175N
		50 µg/mL	Toluene	H-175S
4,5-Methylenephenanthrene	203-64-5	50 µg/mL	Toluene	H-119S
2-Methylfluoranthene	33543-31-6	10 mg	Neat	H-182N
		50 µg/mL	Toluene	H-182S
		50 µg/mL	Toluene	H-001N
1-Methylnaphthalene	90-12-0	50 µg/mL	Toluene	H-001S
		2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	H-001S-D-40X
		0.5 mg/mL	AcCN	M-8310-FL-14
		100 mg	Neat	H-002N
2-Methylnaphthalene	91-57-6	50 µg/mL	Toluene	H-002S
		100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-133
		0.5 mg/mL	AcCN	M-8310-FL-15
1-Methylphenanthrene	832-69-9	10 mg	Neat	H-162N
		50 µg/mL	Toluene	H-162S
2-Methylphenanthrene	2531-84-2	50 µg/mL	Toluene	H-003S
9-Methyl-9-phenylfluorene	56849-83-3	10 mg	Neat	H-204N
		50 µg/mL	Toluene	H-204S
3-Methylphenanthro(3,4-C)phenanthrene		50 µg/mL	Toluene	H-224S
1-Methylpyrene	2381-71-7	50 µg/mL	Toluene	H-233S
1,4-Naphthoquinone	130-15-4	100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-137

# PAHs & Derivatives

Individual PAHs &amp; Derivatives (in 1 mL of solvent, unless otherwise noted)

PAHs & DERIVATIVES	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.
Naphthalene	91-20-3	100 mg	Neat	H-152N
		50 µg/mL	Toluene	H-152S
		100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-136
		0.2 mg/mL	MeOH	M-502-40
		0.5 mg/mL	AcCN	M-8310-FL-16
		1 mg/mL	MeOH	AS-E0053
		2 mg/mL	MeOH	M-502-40-10X
Naphthalene-d <sub>6</sub>	1146-65-2	0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625-12
		4 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-014J-4
1-Nitronaphthalene	86-57-7	100 mg	Neat	R-016N
		100 µg/mL	Toluene	R-016S
1-Nitropyrene	5522-43-0	5 mg	Neat	R-022N
		100 µg/mL	Toluene	R-022S
2-Nitroanthracene	3586-69-4	5 mg	Neat	R-105N
		100 µg/mL	Toluene	R-105S
2-Nitrobenzothiophene	6639-36-7	5 mg	Neat	R-010N
		100 µg/mL	Toluene	R-010S
2-Nitrofluorene	607-57-8	100 mg	Neat	R-098N
		100 µg/mL	Toluene	R-098S
2-Nitronaphthalene	581-89-5	100 mg	Neat	R-085N
		100 µg/mL	Toluene	R-085S
3-Nitrofluoranthene	892-21-7	5 mg	Neat	R-013N
		100 µg/mL	Toluene	R-013S
3-Nitrophenanthrene	17024-19-0	5 mg	Neat	R-045N
		100 µg/mL	Toluene	R-045S
4-Nitrophenanthrene	82064-15-1	100 µg/mL	Toluene	R-046S
5-Nitroacenaphthene	602-87-9	5 mg	Neat	R-115N
		100 µg/mL	Toluene	R-115S
6-Nitrobenz(a)pyrene	63041-90-7	100 µg/mL	Toluene	R-004S
6-Nitrochrysene	7496-02-8	5 mg	Neat	R-008N
		100 µg/mL	Toluene	R-008S
7-Nitrobenz(a)anthracene	20268-51-3	5 mg	Neat	R-097N
		100 µg/mL	Toluene	R-097S
9-Nitroanthracene	602-60-8	5 mg	Neat	R-003N
		100 µg/mL	Toluene	R-003S
9-Nitrophenanthrene	954-46-1	5 mg	Neat	R-020N
		100 µg/mL	Toluene	R-020S
Nitrobenzene	98-95-3	100 mg	Neat	R-047N
		100 µg/mL	Toluene	R-047S
Perylene	198-55-0	10 mg	Neat	H-121N
		50 µg/mL	Toluene	H-121S
Perylene-d <sub>12</sub>	1520-96-3	4 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-014J-5
1-Phenylnaphthalene	605-02-7	100 mg	Neat	H-246N
		50 µg/mL	Toluene	H-246S
2-Phenylnaphthalene	612-94-2	5 mg	Neat	H-158N
		50 µg/mL	Toluene	H-158S
9-Phenylanthracene	602-55-1	100 mg	Neat	H-156N
		50 µg/mL	Toluene	H-156S
N-phenyl-1-naphthylamine	90-30-2	50 mg	Neat	R-071N
		100 µg/mL	Toluene	R-071S
N-phenyl-2-naphthylamine	135-88-6	10 mg	Neat	R-082N
		100 µg/mL	Toluene	R-082S
Phenacetin	62-44-2	100 µg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-177
		5 mg/mL	MeOH	AS-E0295
Phenanthrene	85-01-8	100 mg	Neat	H-122N
		50 µg/mL	Toluene	H-122S
		100 µg/mL	MeOH	APP-9-178
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-013-15
		0.5 mg/mL	AcCN	M-8310-FL-17
		2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	APP-9-178-D-20X
		5 mg/mL	MeOH	AS-E0079
Phenanthrene-d <sub>10</sub>	1517-22-2	0.15 mg/mL	MeOH	AS-E0188
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	M-625-14
		4 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-014J-6
Picene	213-46-7	5 mg	Neat	H-184N
		50 µg/mL	Toluene	H-184S
Pyrene	129-00-0	100 mg	Neat	H-123N
		50 µg/mL	Toluene	H-123S
		100 µg/mL	MeOH	APP-9-185
		0.2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	Z-013-16
		0.5 mg/mL	AcCN	M-8310-FL-18
		1 mg/mL	MeOH	APP-9-185-10X
		5 mg/mL	MeOH	AS-E0082
Pyrene-d <sub>10</sub>	1718-52-1	0.5 mg/mL	Acetone	M-525-SS
Pyrrole	109-97-7	100 mg	Neat	H-229N
		50 µg/mL	Toluene	H-229S
Quinoline	91-22-5	100 mg	Neat	H-186N
1,2,3,4-Tetrachloronaphthalene	20020-02-4	10 mg	Neat	N-005N
1,2:3,4-Tetrahydrofluoranthene	20279-21-4	10 mg	Neat	H-165N
		50 µg/mL	Toluene	H-165S
2,3:6,7-Tetraethylbiphenylene		10 mg	Neat	H-225N
		50 µg/mL	Toluene	H-225S

# PAHs & Derivatives

Individual PAHs &amp; Derivatives (in 1 mL of solvent, unless otherwise noted)

PAHs & DERIVATIVES	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.
m-Terphenyl	92-06-8	100 mg	Neat	T-002N
o-Terphenyl	84-15-1	100 mg	Neat	T-001N
p-Terphenyl	92-94-4	100 mg	Neat	T-003N
p-Terphenyl-d <sub>4</sub>	1718-51-0	0.5 mg/mL 2 mg/mL	CH <sub>2</sub> Cl <sub>2</sub> CH <sub>2</sub> Cl <sub>2</sub>	M-525-FS-2 CLP-BNS-3-2X
Thianaphthene	95-15-8	100 mg 50 µg/mL	Neat Toluene	H-238N H-238S
Thianthrene	92-85-3	100 mg	Neat	H-241N
o-Tolidine	119-93-7	100 mg 100 µg/mL	Neat Toluene	R-072N R-072S
2,4,7-Trinitro-9-fluorenone	129-79-3	25 mg 100 µg/mL	Neat Toluene	R-033N R-033S
4,6,8-Trimethylazulene	941-81-1	10 mg 50 µg/mL	Neat Toluene	H-226N H-226S
8,9,11-Trimethylbenz(a)anthracene		50 µg/mL	Toluene	H-227S
Triphenylene	217-59-4	10 mg 50 µg/mL	Neat Toluene	H-235N H-235S
Truxene	548-35-6	100 mg 50 µg/mL	Neat Toluene	H-124N H-124S

## EU Formulations

### DIN 38407-8 PAH Mix (WHO 6 List)

Scope: Determination of PAH in water, wastewater and sludge by HPLC.

**DIN38407-8-PAH** 1 x 1 mL  
2 µg/mL each in Acetonitrile 6 comps.

Fluoranthene  
Benzo(b)fluoranthene  
Benzo(g,h,i)perylene  
Benzo(a)pyrene  
Benzo(k)fluoranthene  
Indeno(1,2,3-cd)pyrene

### DIN 38407-18 PAH Solution

Scope: Examination of water, wastewater, and sludge for the determination of 15 polycyclic aromatic hydrocarbons (PAH) by HPLC with fluorescence detection.

**DIN38407-18** 1 x 1 mL  
10 µg/mL each in Acetonitrile 15 comps.

Naphthalene  
Acenaphthene  
Fluorene  
Phenanthrene  
Anthracene  
Fluoranthene  
Chrysene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzo(a)pyrene (Ames grade)  
Dibenz(a,h)anthracene  
Benzo(g,h,i)perylene  
Pyrene  
Benz(a)anthracene  
Indeno(1,2,3-cd)pyrene

### DIN 38414-23 PAHs

Scope: Determination of 15 PAHs in water, waste water and sludge by HPLC and Fluorescence detection.

**DIN38414-23** 1 x 1 mL  
10 µg/mL each in Acetonitrile 15 comps.

Naphthalene  
Acenaphthene  
Fluorene  
Phenanthrene  
Anthracene  
Fluoranthene  
Chrysene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzo(a)pyrene (Ames grade)  
Dibenz(a,h)anthracene  
Benzo(g,h,i)perylene  
Pyrene  
Benz(a)anthracene  
Indeno(1,2,3-cd)pyrene

### PAH Mix 1

Regulations for drinking water analysis, (E-DIN 38407-F-18, E-DIN 38414-F-21).

 Regulations for sediment and sludge  
**AE-00025** 1 x 1 mL  
**AE-00025-10ML** 1 x 10 mL  
At stated conc. in Acetonitrile 16 comps.

Acenaphthene 25 µg/mL  
Acenaphthylene 25 µg/mL  
Anthracene 25 µg/mL  
Benzo(a)anthracene 10 µg/mL  
Benzo(b)fluoranthene 25 µg/mL  
Benzo(k)fluoranthene 10 µg/mL  
Benzo(g,h,i)perylene 25 µg/mL  
Benzo(a)pyrene 20 µg/mL  
Chrysene 20 µg/mL  
Dibenz(a,h)anthracene 40 µg/mL  
Fluoranthene 40 µg/mL  
Fluorene 40 µg/mL  
Indeno(1,2,3-cd)pyrene 25 µg/mL  
Naphthalene 50 µg/mL  
Phenanthrene 30 µg/mL  
Pyrene 40 µg/mL

### PAH Mix 2

 Often requested formulation  
**AE-00045** 1 x 1 mL  
**AE-00045-10ML** 1 x 10 mL  
At stated conc. in Acetonitrile 7 comps.

Benzo(b)fluoranthene 2 µg/mL  
Benzo(k)fluoranthene 2 µg/mL  
Benzo(g,h,i)perylene 2 µg/mL  
Benzo(a)pyrene 2 µg/mL  
Fluoranthene 10 µg/mL  
Indeno(1,2,3,cd)pyrene 2 µg/mL  
Perylene 10 µg/mL

### PAH Mix 3

German method for drinking water analysis.

**AE-00032** 1 x 1 mL  
**AE-00032-10ML** 1 x 10 mL  
10 µg/mL each in Acetonitrile 7 comps.

Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzo(g,h,i)perylene  
Benzo(a)pyrene  
Fluoranthene  
Indeno(1,2,3,cd)pyrene  
Perylene

### PAH Mix 4

Often requested formulation

**AE-00033** 1 x 1 mL  
**AE-00033-10ML** 1 x 10 mL  
At stated conc. in Acetonitrile 7 comps.

Benzo(b)fluoranthene 20 µg/mL  
Benzo(k)fluoranthene 20 µg/mL  
Benzo(g,h,i)perylene 20 µg/mL  
Benzo(a)pyrene 20 µg/mL  
Fluoranthene 50 µg/mL  
Indeno(1,2,3,cd)pyrene 40 µg/mL  
Perylene 20 µg/mL

# PAHs & Derivatives

PAHs & Derivatives Mixtures

## DEP (MA) - Aromatic Hydrocarbons

<b>DRH-006S</b>		<b>1 x 1 mL</b>
<b>DRH-006S-PAK</b>	<b>SAVE</b>	<b>5 x 1 mL</b>
0.1 mg/mL each in CH <sub>2</sub> Cl <sub>2</sub> 17 comps.		
Acenaphthene	Dibenz(a,h)anthracene	
Acenaphthylene	Fluoranthene	
Anthracene	Fluorene	
Benzo(a)anthracene	Indeno(1,2,3-cd)pyrene	
Benzo(a)pyrene	2-Methylnaphthalene	
Benzo(b)fluoranthene	Naphthalene	
Benzo(g,h,i)perylene	Phenanthrene	
Benzo(k)fluoranthene	Pyrene	
Chrysene		

## Method 610 PAHs by GC/FID or HPLC

<b>M-610</b>		<b>1 x 1 mL</b>
0.1 mg/mL each in MeOH : CH <sub>2</sub> Cl <sub>2</sub> (1:1) 16 comps.		
Acenaphthene	Chrysene	
Acenaphthylene	Dibenz(a,h)anthracene	
Anthracene	Fluoranthene	
Benzo(a)anthracene	Fluorene	
Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	
Benzo(b)fluoranthene	Naphthalene	
Benzo(g,h,i)perylene	Phenanthrene	
Benzo(k)fluoranthene	Pyrene	

## Method 8310 PAHs by HPLC

### PAH Mixture

<b>M-8310</b>		<b>1 x 1 mL</b>
<b>M-8310-PAK</b>	<b>SAVE</b>	<b>5 x 1 mL</b>
0.5 mg/mL each in AcCN 16 comps.		
Acenaphthene	Chrysene	
Acenaphthylene	Dibenz(a,h)anthracene	
Anthracene	Fluoranthene	
Benzo(a)anthracene	Fluorene	
Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	
Benzo(b)fluoranthene	Naphthalene	
Benzo(g,h,i)perylene	Phenanthrene	
Benzo(k)fluoranthene	Pyrene	

### PAH Quality Control Calibration Mixture

<b>M-610-QC</b>		<b>1 x 1 mL</b>
At stated conc. in AcCN 16 comps.		
	mg/mL	mg/mL
Acenaphthene	0.1	Chrysene 0.01
Acenaphthylene	0.1	Dibenz(a,h)anthracene 0.01
Anthracene	0.1	Fluoranthene 0.01
Benzo(a)anthracene	0.01	Fluorene 0.1
Benzo(a)pyrene	0.01	Indeno(1,2,3-cd)pyrene 0.01
Benzo(b)fluoranthene	0.01	Naphthalene 0.1
Benzo(g,h,i)perylene	0.01	Phenanthrene 0.1
Benzo(k)fluoranthene	0.005	Pyrene 0.01

### Surrogate Standard

<b>M-8310-SS</b>		<b>1 x 1 mL</b>
<b>M-8310-SS-PAK</b>	<b>SAVE</b>	<b>5 x 1 mL</b>
0.1 mg/mL in Acetonitrile		
Decafluorobiphenyl		

### Internal Standard Post Supercritical Fluid Extraction

<b>M-8310-SFE-IS-100X</b>		<b>1 x 1 mL</b>
<b>M-8310-SFE-IS-100X-PAK</b>	<b>SAVE</b>	<b>5 x 1 mL</b>
20,000 µg/mL in AcCN : THF (1:1)		
Biphenyl		

## Florida Method PAH Mixture for Florida (EPA 16 List)

<b>Z-014G-FL</b>		<b>1 x 1 mL</b>
2.0 mg/mL each in CH <sub>2</sub> Cl <sub>2</sub> : Benzene 18 comps.		
Acenaphthene	Dibenz(a,h)anthracene	
Acenaphthylene	Fluoranthene	
Anthracene	Fluorene	
Benzo(a)anthracene	Indeno(1,2,3-cd)pyrene	
Benzo(a)pyrene	Naphthalene	
Benzo(b)fluoranthene	Phenanthrene	
Benzo(g,h,i)perylene	Pyrene	
Benzo(k)fluoranthene	1-Methylnaphthalene	
Chrysene	2-Methylnaphthalene	

## Florida Admin. Code (Pre 9/97 62.770) PAHs by HPLC

### Performance Check Solution

<b>M-610-QC-FL</b>		<b>1 x 1 mL</b>
<b>M-610-QC-FL-PAK</b>	<b>SAVE</b>	<b>5 x 1 mL</b>
At stated conc. in AcCN 18 comps.		
	mg/mL	mg/mL
Acenaphthene	0.1	Dibenz(a,h)anthracene 0.01
Acenaphthylene	0.1	Fluoranthene 0.01
Anthracene	0.1	Fluorene 0.1
Benzo(a)anthracene	0.01	Indeno(1,2,3-cd)pyrene 0.01
Benzo(a)pyrene	0.01	1-Methyl naphthalene 0.1
Benzo(b)fluoranthene	0.01	2-Methyl naphthalene 0.1
Benzo(g,h,i)perylene	0.01	Naphthalene 0.1
Benzo(k)fluoranthene	0.005	Phenanthrene 0.1
Chrysene	0.01	Pyrene 0.01

### Matrix Spiking Solution

<b>M-610-MS</b>		<b>1 x 1 mL</b>
<b>M-610-MS-PAK</b>	<b>SAVE</b>	<b>5 x 1 mL</b>
At stated conc. in AcCN 6 comps.		
	mg/mL	mg/mL
Benz[a]pyrene	0.5	2-Methylnaphthalene 5.0
Chrysene	0.5	Phenanthrene 0.5
1-Methylnaphthalene	5.0	Pyrene 0.5

### PAH Mix Additions

<b>H-001S/002S-M-20X</b>		<b>1 x 1 mL</b>
1.0 mg/mL in MeOH 2 comps.		
1-Methyl naphthalene	2-Methyl naphthalene	

### Polynuclear Aromatic Hydrocarbons (HPLC)

<b>M-8310-FL</b>		<b>1 x 1 mL</b>
<b>M-8310-FL-PAK</b>	<b>SAVE</b>	<b>5 x 1 mL</b>
0.5 mg/mL in AcCN 18 comps.		
Acenaphthene	Dibenz(a,h)anthracene	
Acenaphthylene	Fluoranthene	
Anthracene	Fluorene	
Benzo(a)anthracene	Indeno(1,2,3-cd)pyrene	
Benzo(a)pyrene	1-Methylnaphthalene	
Benzo(b)fluoranthene	2-Methylnaphthalene	
Benzo(g,h,i)perylene	Naphthalene	
Benzo(k)fluoranthene	Phenanthrene	
Chrysene	Pyrene	

### Polynuclear Aromatic Hydrocarbons (HPLC)

<b>M-8310-QC-ATI</b>		<b>1 x 1 mL</b>
<b>M-8310-QC-ATI-PAK</b>	<b>SAVE</b>	<b>5 x 1 mL</b>
At stated conc. in AcCN 18 comps.		
	µg/mL	µg/mL
Acenaphthene	1000	Dibenz(a,h)anthracene 200
Acenaphthylene	2000	Fluoranthene 200
Anthracene	100	Fluorene 200
Benzo(a)anthracene	100	Indeno(1,2,3-cd)pyrene 100
Benzo(a)pyrene	100	1-Methylnaphthalene 1000
Benzo(b)fluoranthene	200	2-Methylnaphthalene 1000
Benzo(g,h,i)perylene	200	Naphthalene 100
Benzo(k)fluoranthene	100	Phenanthrene 100
Chrysene	100	Pyrene 100

109-97-7:36	224-42-0:33	605-71-0:34	10ML:37	AS-E0020:33
109041-38-5:34	226-36-8:33	606-37-1:34	AE-00045:37	AS-E0037:34
1146-65-2:36	227-09-8:33	607-57-8:36	AE-00045-	AS-E0053:36
117-79-3:32	230-27-3:33	610-48-0:35	10ML:37	AS-E0070:32
119-65-3:35	238-84-6:33	610-49-1:32	APP-9-001:32	AS-E0071:33
119-93-7:37	2381-71-7:35	612-78-2:33	APP-9-001-	AS-E0072:32
120-12-7:32	243-17-4:33	612-94-2:36	10X:32	AS-E0073:32
120-72-9:35	2498-66-0:32	613-06-9:34	APP-9-002:32	AS-E0074:33
122-66-7:34	2531-84-2:35	613-12-7:35	APP-9-002-	AS-E0075:32
129-00-0:36	260-94-6:32	613-13-8:32	10X:32	AS-E0076:32
129-79-3:37	2642-98-0:32	613-31-0:34	APP-9-006:32	AS-E0077:33
130-15-4:35	271-89-6:33	62-44-2:36	APP-9-013:32	AS-E0078:35
132-65-0:34	27208-37-3:33	63041-77-0:35	APP-9-013-	AS-E0079:36
134-32-7:32, 35	2732-58-3:34	63041-90-7:36	10X:32	AS-E0081:35
135-88-6:36	275-51-4:32	63104-33-6:34	APP-9-016:32	AS-E0082:36
1499-10-1:34	31551-45-8:34	6639-36-7:36	APP-9-016-	AS-E0188:36
15067-26-2:32	321-38-0:34	75321-20-9:34	10X:32	AS-E0194:34
1517-22-2:36	321-60-8:34	776-34-1:32	APP-9-017:32	AS-E0195:34
1520-96-3:36	323-09-1:34	779-02-2:35	APP-9-017-	AS-E0199:33
153-78-6:32	3351-30-2:35	781-43-1:34	10X:32	AS-E0231:33
1576-67-6:34	33543-31-6:35	82-45-1:32	APP-9-018:32	AS-E0295:36
1610-39-5:34	33685-60-8:34	82064-15-1:36	APP-9-018-D-	AS-E0419:35
17024-19-0:36	3586-69-4:36	83-32-9:32	20X:32	AS-E0565:35
1705-85-7:35	37515-51-8:35	832-69-9:35	APP-9-019:33	AS-E0567:34
1718-51-0:36, 37	398-23-2:34	84-15-1:37	APP-9-019-	CLP-033:33
1718-52-1:36	42397-64-8:34	85-01-8:36	10X:33	CLP-BNS-3-
1718-53-2:32	42397-65-9:34	85-02-9:33	APP-9-020:33	2X:36
1719-03-5:33	429-27-6:33	86-57-7:36	APP-9-020-D-	DIN38407-18:37
1719-06-8:32	496-11-7:35	86-73-7:35	20X:33	DIN38407-8-
1825-31-6:34	50-32-8:33	86-74-8:33	APP-9-045:33	PAH:37
188-94-3:34	5074-71-5:33	892-21-7:36	APP-9-049:33	DIN38414-23:37
189-55-9:34	525-64-4:33	90-12-0:35	APP-9-049-D-	DRH-006S:38
189-64-0:33	53-70-3:33	90-13-1:33	20X:33	DRH-006S-
191-07-1:33	53-96-3:32	90-30-2:36	APP-9-058:33	PAK:38
191-24-2:33	5315-79-7:35	91-20-3:36	APP-9-084:34	H-001N:35
191-26-4:32	5385-75-1:33	91-22-5:36	APP-9-084-	H-001S:35
191-30-0:34	5405-53-8:34	91-57-6:35	20X:34	H-001S-D-40X:35
192-65-4:33	548-35-6:37	91-58-7:33	APP-9-108:34	H-001S/002S-M-
192-97-2:33	5522-43-0:36	91-59-8:32, 35	APP-9-109:35	20X:38
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