

**Out of Stock - Alternative: NIST-1991 Mixed Coal Tar/Petroleum Extract in Methylene Chloride - Complex Mixture of PAHs from Coal Tar**

Art. ID	NIST-1597a
Unit	3 x 1,3 mL
Deliverydetails	No Dangerous Good /not restricted

**Description**

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. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Naphthalene	[91-20-3]	1030 ± 100	mg/kg		
	Biphenyl	[92-52-4]	27.6 ± 0.4	mg/kg		
	Acenaphthylene	[208-96-8]	263 ± 7	mg/kg		
	Acenaphthene	[83-32-9]	7.63 ± 0.26	mg/kg		
	Fluorene	[86-73-7]	145 ± 4	mg/kg		
	Phenanthrene	[85-01-8]	454 ± 7	mg/kg		
	Anthracene	[120-12-7]	107 ± 3	mg/kg		
	3-Methylphenanthrene	[832-71-3]	15.8 ± 0.8	mg/kg		
	2-Methylphenanthrene	[2531-84-2]	19.1 ± 1.1	mg/kg		
	9-Methylphenanthrene	[883-20-5]	5.31 ± 0.50	mg/kg		
	1-Methylphenanthrene	[832-69-9]	9.23 ± 0.22	mg/kg		
	Fluoranthene	[206-44-0]	327 ± 7	mg/kg		
	Pyrene	[129-00-0]	240 ± 7	mg/kg		
	Benzo(g,h,i)fluoranthene	[203-12-3]	13.5 ± 0.2	mg/kg		
	e					
	Benzo(c)phenanthrene	[195-19-7]	11.0 ± 0.5	mg/kg		
	Benzo(a)anthracene	[56-55-3]	98.1 ± 2.3	mg/kg		
	Chrysene	[218-01-9]	66.2 ± 5.3	mg/kg		
	Triphenylene	[217-59-4]	12.1 ± 0.6	mg/kg		
	Benzo(b)fluoranthene	[205-99-2]	66.1 ± 4.4	mg/kg		
	Benzo(j)fluoranthene	[205-82-3]	36.5 ± 2.4	mg/kg		
	Benzo(k)fluoranthene	[207-08-9]	41.2 ± 0.4	mg/kg		
	Benzo(e)pyrene	[192-97-2]	50.4 ± 1.0	mg/kg		
	Benzo(a)pyrene	[50-32-8]	93.5 ± 1.4	mg/kg		
	Perylene	[198-55-0]	24.6 ± 0.9	mg/kg		

Benzo(g,h,i)perylene	[191-24-2]	50.5 ± 0.6	mg/kg
Indeno(1,2,3-cd)pyrene	[193-39-5]	55.5 ± 0.8	mg/kg
Dibenz(a,j)anthracene	[224-41-9]	6.80 ± 0.46	mg/kg
Dibenz(a,c)anthracene	[215-58-7]	4.35 ± 0.21	mg/kg
Dibenz(a,h)anthracene	[53-70-3]	6.93 ± 0.40	mg/kg
Benzo(b)chrysene	[214-17-5]	10.8 ± 0.4	mg/kg
Picene	[213-46-7]	6.59 ± 0.22	mg/kg
Dibenzo(b,k)fluoranthene	[205-97-0]	11.2 ± 0.8	mg/kg
e			
Dibenzo(a,e)pyrene	[192-65-4]	9.08 ± 0.39	mg/kg
Dibenzo(a,h)pyrene	[189-64-0]	2.57 ± 0.30	mg/kg