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Diesel particulate matter - PAHs and nitro-PAHs

Art. ID	NIST-1650b
Unit	200 mg
Deliverydetails	No Dangerous Good /not restricted

Description

Standard Reference Material (SRM®) 1650b is diesel particulate matter and is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs) and nitro-substituted polycyclic aromatic hydrocarbons (nitro-PAHs) in diesel particulate matter and similar matrices. Reference or information values are also provided for total extractable mass, particle-size distribution, specific surface area, and mutagenic activity. All of the chemical constituents for which certified, reference, and information values are provided in NIST-1650b are naturally present in the diesel particulate material. NIST-1650b was prepared from the same bulk diesel particulate material that was issued previously in 1985 as NIST-1650 and in 2000 as NIST-1650a . A unit of NIST-1650b consists of a bottle containing approximately 200 mg of diesel particulate material. Certified values /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Naphthalene	[91-20-3]	5,07 ± 0,43	mg/kg		
	1-Methylnaphthalene	[90-12-0]	1,51 ± 0,12	mg/kg		
	2-Methylnaphthalene	[91-57-6]	3,05 ± 0,56	mg/kg		
	Phenanthrene	[85-01-8]	69,5 ± 1,9	mg/kg		
	Anthracene	[120-12-7]	7,67 ± 0,47	mg/kg		
	1-Methylphenanthrene	[832-69-9]	28,3 ± 1,5	mg/kg		
	2-Methylphenanthrene	[2531-84-2]	70,7 ± 2,7	mg/kg		
	3-Methylphenanthrene	[832-71-3]	55,1 ± 1,9	mg/kg		
	9-Methylphenanthrene	[883-20-5]	35,1 ± 1,9	mg/kg		
	Fluoranthene	[206-44-0]	47,3 ± 0,8	mg/kg		
	Pyrene	[129-00-0]	43,4 ± 1,6	mg/kg		
	Benzo(g,h,i)fluoranthene	[203-12-3]	10,8 ± 1,0	mg/kg		
	Benzo(c)phenanthrene	[195-19-7]	2,51 ± 0,29	mg/kg		
	Benzo(a)anthracene	[56-55-3]	6,18 ± 0,30	mg/kg		
	Chrysene	[218-01-9]	13,3 ± 1,1	mg/kg		
	Triphenylene	[217-59-4]	9,17 ± 0,94	mg/kg		
	Benzo(a)fluoranthene	[203-33-8]	0,370 ± 0,029	mg/kg		
	Benzo(b)fluoranthene	[205-99-2]	6,77 ± 0,84	mg/kg		
	Benzo(j)fluoranthene	[205-82-3]	3,24 ± 0,42	mg/kg		
	Benzo(k)fluoranthene	[207-08-9]	2,37 ± 0,21	mg/kg		
	Benzo(a)pyrene	[50-32-8]	1,17 ± 0,09	mg/kg		
	Benzo(e)pyrene	[192-97-2]	6,30 ± 0,50	mg/kg		
	Perylene	[198-55-0]	0,165 ± 0,032	mg/kg		

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	Benzo(g,h,i)perylene	[191-24-2]	5,91 ± 0,18	mg/kg
	Indeno(1,2,3-cd)pyrene	[193-39-5]	4,44 ± 0,28	mg/kg
	Dibenz(a,c)anthracene	[215-58-7]	0,438 ± 0,043	mg/kg
	Dibenz(a,h)anthracene	[53-70-3]	0,365 ± 0,071	mg/kg
	Dibenz(a,j)anthracene	[224-41-9]	0,387 ± 0,051	mg/kg
	Benzo(b)chrysene	[214-17-5]	0,290 ± 0,020	mg/kg
	Picene	[213-46-7]	0,499 ± 0,061	mg/kg
	9-Nitroanthracene	[602-60-8]	5890 ± 310	µg/kg
	1-Nitropyrene	[5522-43-0]	18200 ± 200	µg/kg
	7-Nitrobenz(a)anthracene	[20268-51-3]	967 ± 42	µg/kg
	6-Nitrochrysene	[7496-02-8]	45,5 ± 1,9	µg/kg
	6-Nitrobenzo(a)pyrene	[63041-90-7]	1390 ± 100	µg/kg
	1,6-Dinitropyrene	[42397-64-8]	84,0 ± 3,0	µg/kg