

## Urban dust - Organic contaminants

Art. ID	NIST-1649b
Unit	2 g
Deliverydetails	No Dangerous Good /not restricted

### Description

This Standard Reference Material (SRM) is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), nitro-substituted PAHs (nitro-PAHs), polychlorinated biphenyl (PCB) congeners, chlorinated pesticides, and inorganic constituents in atmospheric particulate material and similar matrices. In addition to certified values, reference or information values are also provided for decabromodiphenyl ether and selected toxaphene congeners, polychlorinated dibenzo-p-dioxin and dibenzofuran congeners, and inorganic constituents. Information values are provided for hydrocarbons, hopanes, steranes, ketones, and particle-size characteristics. All of the constituents for which certified, reference, and information values are provided in SRM 1649b are naturally present in the particulate material. SRM 1649b was prepared from the same particulate material that was issued in 1982 as SRM 1649 and re-issued in 1999 as SRM 1649a however, the bulk material was sieved to a smaller particle size fraction. A unit of SRM 1649b consists of a bottle containing 2 g of particulate material. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Mass Fraction	4H-Cyclopenta[def]phena	[203-64-5]	0,255 ± 0,023	mg/kg		
Value (Dry-Mass Basis)	anthrene					
Certified Mass Fraction	Pyrene	[129-00-0]	4,98 ± 0,14	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	1-Methylfluoranthene	[25889-60-5]	0,114 ± 0,015	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	3-Methylfluoranthene	[1706-01-0]	0,328 ± 0,031	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	1-Methylpyrene	[2381-21-7]	0,363 ± 0,005	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	Retene	[483-65-8]	0,238 ± 0,011	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	Benzo[c]phenanthrene	[195-19-7]	0,460 ± 0,013	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	Chrysene	[218-01-9]	3,045 ± 0,028	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	Triphenylene	[217-59-4]	1,324 ± 0,004	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	Benzo[b]fluoranthene	[205-99-2]	6,18 ± 0,18	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	Benzo[j]fluoranthene	[205-82-3]	1,725 ± 0,043	mg/kg		
Value (Dry-Mass Basis)						
Certified Mass Fraction	Benzo[k]fluoranthene	[207-08-9]	1,702 ± 0,049	mg/kg		

Value (Dry-Mass Basis)				
Certified Mass Fraction	Benzo[e]pyrene	[192-97-2]	2,974 ± 0,053	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Perylene	[198-55-0]	0,614 ± 0,011	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Indeno[1,2,3-cd]pyrene	[193-39-5]	2,89 ± 0,16	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Dibenz[a,j]anthracene	[224-41-9]	0,305 ± 0,027	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Benzo[b]chrysene	[214-17-5]	0,339 ± 0,043	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Picene	[213-46-7]	0,399 ± 0,022	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Dibenzo[b,k]fluoranthene	[205-97-0]	0,670 ± 0,053	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Dibenzo[a,e]pyrene	[192-65-4]	0,567 ± 0,025	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	3-Nitrophenanthrene	[17024-19-0]	21,8 ± 1,2	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	9-Nitrophenanthrene	[954-46-1]	1,77 ± 0,07	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	2-Nitrofluoranthene	[13177-29-2]	304 ± 25	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	3-Nitrofluoranthene	[892-21-7]	4,67 ± 0,35	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	1-Nitropyrene	[5522-43-0]	74,8 ± 1,9	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	2-Nitropyrene	[789-07-1]	10,9 ± 0,1	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	7-Nitrobenz(a)anthracene	[20268-51-3]	24,4 ± 0,4	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	6-Nitrochrysene	[7496-02-8]	3,60 ± 0,21	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	2,2',4,5'-Tetrachlorobiphenyl (PCB 49)	[41464-40-8]	9,1 ± 1,7	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	[35693-99-3]	24,3 ± 6,1	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	2,2',4,5,5'-Pentachlorobiphenyl (PCB 53)	[37680-73-2]	56,4 ± 5,2	µg/kg

Value (Dry-Mass Basis)	biphenyl (PCB 101)			
Certified Mass Fraction	2,3,3',4,4'-Pentachloro	[32598-14-4]	10 ± 1	µg/kg
Value (Dry-Mass Basis)	biphenyl (PCB 105)			
Certified Mass Fraction	2,3,3',4',6-Pentachloro	[38380-03-9]	33,7 ± 5	µg/kg
Value (Dry-Mass Basis)	biphenyl (PCB 110)			
Certified Mass Fraction	2,2',3,4',5',6-Hexachloro	[38380-04-0]	79,4 ± 3,2	µg/kg
Value (Dry-Mass Basis)	robiphenyl (PCB 149)			
Certified Mass Fraction	2,2',3,5,5',6-Hexachloro	[52663-63-5]	33,4 ± 3,6	µg/kg
Value (Dry-Mass Basis)	obiphenyl (PCB 151)			
Certified Mass Fraction	2,2',4,4',5,5'-Hexachloro	[35065-27-1]	76,6 ± 0,4	µg/kg
Value (Dry-Mass Basis)	robiphenyl (PCB 153)			
Certified Mass Fraction	2,3,3',4',5,6-Hexachloro	[74472-44-9]	22,2 ± 0,3	µg/kg
Value (Dry-Mass Basis)	obiphenyl (PCB 163)			
Certified Mass Fraction	2,2',3,4,4',5',6-Heptachloro	[52663-69-1]	17,2 ± 1,5	µg/kg
Value (Dry-Mass Basis)	hlorobiphenyl (PCB 183)			
Certified Mass Fraction	2,2',3,4',5,5',6-Heptachloro	[52663-68-0]	39,3 ± 2,8	µg/kg
Value (Dry-Mass Basis)	hlorobiphenyl (PCB 187)			
Certified Mass Fraction	2,2',3,3',4,4',5,5'-Octachloro	[35694-08-7]	28,5 ± 2,8	µg/kg
Value (Dry-Mass Basis)	achlorobiphenyl (PCB 194)			
Certified Mass Fraction	2,2',3,3',4,4',5,5',6-Nonachloro	[40186-72-9]	17 ± 2,1	µg/kg
Value (Dry-Mass Basis)	onachlorobiphenyl (PCB 206)			
Certified Mass Fraction	trans-Chlordane (gamma)	[5103-74-2]	51,9 ± 9,0	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	trans-Nonachloro	[39765-80-5]	33,7 ± 6,1	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	4,4'-DDE	[72-55-9]	50,7 ± 0,4	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	4,4'-DDD	[72-54-8]	37,7 ± 3,1	µg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Cadmium (Cd)	[7440-43-9]	26,10 ± 0,28	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Lead	[7439-92-1]	12864 ± 62	mg/kg
Value (Dry-Mass Basis)				
Certified Mass Fraction	Mercury (Hg)	[7439-97-6]	1,80 ± 0,04	mg/kg
Value (Dry-Mass Basis)				