

## **Fine Atmospheric Particulate Matter (Mean Particle Diameter smaller 10 µm)**

Art. ID	NIST-2787
Unit	1 bottle
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, polybrominated diphenyl ether (PBDE) congeners, hexabromocyclododecane (HBCD) isomers, sugars, polychlorinated dibenzo-p-dioxin (PCDD) and dibenzofuran (PCDF) congeners, inorganic constituents, and particle-size characteristics in atmospheric particulate material and similar matrices. All of the constituents for which certified, reference, and information values are provided are naturally present in the particulate matter. A unit of NIST-2787 consists of one bottle containing between 100 mg and 140 mg of particulate matter. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Dry-mass basis	Fluorene	[86-73-7]	0,150 ± 0,010	mg/kg		
Dry-mass basis	Fluoranthene	[206-44-0]	12,28 ± 0,21	mg/kg		
Dry-mass basis	Pyrene	[129-00-0]	9,60 ± 0,39	mg/kg		
Dry-mass basis	Retene	[483-65-8]	4,23 ± 0,26	mg/kg		
Dry-mass basis	Benzo(g,h,i)fluoranthene	[203-12-3]	3,44 ± 0,20	mg/kg		
	e					
Dry-mass basis	Chrysene	[218-01-9]	7,74 ± 0,76	mg/kg		
Dry-mass basis	Triphenylene	[217-59-4]	1,724 ± 0,016	mg/kg		
Dry-mass basis	Benzo(b)fluoranthene	[205-99-2]	6,56 ± 0,27	mg/kg		
Dry-mass basis	Benzo(j)fluoranthene	[205-82-3]	3,77 ± 0,25	mg/kg		
Dry-mass basis	Benzo(k)fluoranthene	[207-08-9]	2,94 ± 0,11	mg/kg		
Dry-mass basis	Benzo(a)fluoranthene	[203-33-8]	0,736 ± 0,017	mg/kg		
Dry-mass basis	Benzo(e)pyrene	[192-97-2]	4,05 ± 0,22	mg/kg		
Dry-mass basis	Benzo(a)pyrene	[50-32-8]	3,228 ± 0,074	mg/kg		
Dry-mass basis	Perylene	[198-55-0]	0,737 ± 0,012	mg/kg		
Dry-mass basis	Benzo(g,h,i)perylene	[191-24-2]	4,99 ± 0,14	mg/kg		
Dry-mass basis	Indeno(1,2,3-cd)pyrene	[193-39-5]	4,18 ± 0,24	mg/kg		
Dry-mass basis	Dibenz(a,c)anthracene	[215-58-7]	0,418 ± 0,067	mg/kg		
Dry-mass basis	Dibenz(a,j)anthracene	[224-41-9]	0,502 ± 0,012	mg/kg		
Dry-mass basis	Benzo(b)chrysene	[214-17-5]	0,581 ± 0,030	mg/kg		
Dry-mass basis	Picene	[213-46-7]	1,074 ± 0,047	mg/kg		
Dry-mass basis	Coronene	[191-07-1]	1,70 ± 0,15	mg/kg		
Dry-mass basis	Dibenzo(b,k)fluoranthene	[205-97-0]	0,823 ± 0,027	mg/kg		
	e					
Dry-mass basis	Dibenzo(a,e)pyrene	[192-65-4]	0,567 ± 0,034	mg/kg		

Dry-mass basis	9-Nitroanthracene	[602-60-8]	942 ± 55	µg/kg
Dry-mass basis	1-Nitropyrene	[5522-43-0]	69,5 ± 3,0	µg/kg
Dry-mass basis	2-Nitrofluoranthene	[13177-29-2]	280 ± 34	µg/kg
Dry-mass basis	2,2',4,4',5-Pentabromodiphenyl ether (PBDE 99)	[60348-60-9]	5,83 ± 0,73	µg/kg
Dry-mass basis	Decabromodiphenyl ether (PBDE 209)	[1163-19-5]	169 ± 30	µg/kg
Dry-mass basis	Mercury (Hg) total		0,706 ± 0,038	mg/kg
Dry-mass basis	Aluminium (Al)	[7429-90-5]	35970 ± 1050	mg/kg
Dry-mass basis	Chromium (Cr)	[7440-47-3]	214 ± 15	mg/kg
Dry-mass basis	Manganese (Mn)	[7439-96-5]	741 ± 30	mg/kg
Dry-mass basis	Vanadium (V)	[7440-62-2]	81,7 ± 6,1	mg/kg