

## **Diesel particulate extract - PAHs**

Art. ID	NIST-1975
Unit	4 x 1,2 mL
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) and nitro-substituted PAHs in diesel particulate extracts and similar matrices. In addition to certified, reference, and information values for selected PAHs and nitro-substituted PAHs, reference values are provided for extract residue mass, and mutagenic activity. All of the chemical constituents for which certified and reference values are provided in NIST-1975 were naturally present in the particulate material before extraction. A unit of NIST-1975 consists of four ampoules, each containing approximately 1.2 mL of a dichloromethane extract of diesel particulate matter collected from an industrial dieselpowered forklift. Certified values /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Phenanthrene	[85-01-8]	8.00 ± 0.20	mg/kg		
	Fluoranthene	[206-44-0]	13.5 ± 0.6	mg/kg		
	Benzo(a)anthracene	[56-55-3]	0.092 ± 0.015	mg/kg		
	Chrysene	[218-01-9]	1.95 ± 0.07	mg/kg		
	Triphenylene	[217-59-4]	2.38 ± 0.10	mg/kg		
	Benzo(b)fluoranthene	[205-99-2]	3.20 ± 0.10	mg/kg		
	Benzo(k)fluoranthene	[207-08-9]	0.174 ± 0.050	mg/kg		
	Benzo(e)pyrene	[192-97-2]	0.268 ± 0.023	mg/kg		