

## **Priority Pollutant Polycyclic Aromatic Hydrocarbons in Acetonitrile**

Art. ID	NIST-1647f
Unit	5 x 1,3 mL
Deliverydetails	ADR Excepted Quantity (EQ) / AIR Excepted Quantity (EQ) UN1648 II E2

### Description

This Standard Reference Material (SRM®) is intended primarily as a calibration solution for use in chromatographic methods for the determination of polycyclic aromatic hydrocarbons (PAHs). A unit consists of five 2 mL ampoules, each containing approximately 1,3 mL of an acetonitrile solution of selected PAHs. The PAHs are identified by the U.S. Environmental Protection Agency (EPA) as priority pollutants. This SRM may also be useful in recovery studies for the addition of known amounts of these PAHs to a sample. Because the solution is miscible with water, it can be used to fortify aqueous samples with known concentrations of PAHs. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Naphthalene	[91-20-3]	25,31 ± 0,35	mg/kg		
	Acenaphthylene	[208-96-8]	19,09 ± 0,23	mg/kg		
	Acenaphthene	[83-32-9]	26,44 ± 0,46	mg/kg		
	Fluorene	[86-73-7]	5,93 ± 0,09	mg/kg		
	Phenanthrene	[85-01-8]	4,57 ± 0,05	mg/kg		
	Anthracene	[120-12-7]	1,13 ± 0,03	mg/kg		
	Fluoranthene	[206-44-0]	9,71 ± 0,16	mg/kg		
	Pyrene	[129-00-0]	10,83 ± 0,19	mg/kg		
	Benzo(a)anthracene	[56-55-3]	5,16 ± 0,07	mg/kg		
	Chrysene	[218-01-9]	4,67 ± 0,08	mg/kg		
	Benzo(b)fluoranthene	[205-99-2]	5,29 ± 0,06	mg/kg		
	Benzo(k)fluoranthene	[207-08-9]	5,94 ± 0,09	mg/kg		
	Benzo(a)pyrene	[50-32-8]	6,22 ± 0,11	mg/kg		
	Dibenz(a,h)anthracene	[53-70-3]	4,55 ± 0,11	mg/kg		
	Benzo(g,h,i)perylene	[191-24-2]	4,64 ± 0,12	mg/kg		
	Indeno(1,2,3-cd)pyrene	[193-39-5]	5,40 ± 0,09	mg/kg		
For use in the temperature range of 20 °C to 25 °C	Naphthalene	[91-20-3]	19,71 ± 0,32	mg/L		
For use in the temperature range of 20 °C to 25 °C	Acenaphthylene	[208-96-8]	14,87 ± 0,22	mg/L		
For use in the temperature range of 20 °C to 25 °C	Acenaphthene	[83-32-9]	20,59 ± 0,40	mg/L		

For use in the temperature range of 20 °C to 25 °C	Fluorene	[86-73-7]	4,62 ± 0,08	mg/L
For use in the temperature range of 20 °C to 25 °C	Phenanthrene	[85-01-8]	3,56 ± 0,05	mg/L
For use in the temperature range of 20 °C to 25 °C	Anthracene	[120-12-7]	0,88 ± 0,03	mg/L
For use in the temperature range of 20 °C to 25 °C	Fluoranthene	[206-44-0]	7,56 ± 0,14	mg/L
For use in the temperature range of 20 °C to 25 °C	Pyrene	[129-00-0]	8,44 ± 0,16	mg/L
For use in the temperature range of 20 °C to 25 °C	Benzo(a)anthracene	[56-55-3]	4,02 ± 0,07	mg/L
For use in the temperature range of 20 °C to 25 °C	Chrysene	[218-01-9]	3,64 ± 0,07	mg/L
For use in the temperature range of 20 °C to 25 °C	Benzo(b)fluoranthene	[205-99-2]	4,12 ± 0,06	mg/L
For use in the temperature range of 20 °C to 25 °C	Benzo(k)fluoranthene	[207-08-9]	4,63 ± 0,08	mg/L
For use in the temperature range of 20 °C to 25 °C	Benzo(a)pyrene	[50-32-8]	4,84 ± 0,10	mg/L
For use in the temperature range of 20 °C to 25 °C	Dibenz(a,h)anthracene	[53-70-3]	3,54 ± 0,09	mg/L
For use in the temperature range of 20 °C to 25 °C	Benzo(g,h,i)perylene	[191-24-2]	3,61 ± 0,10	mg/L
For use in the temperature range of 20 °C to 25 °C	Indeno(1,2,3-cd)pyrene	[193-39-5]	4,20 ± 0,08	mg/L

5 °C