

Chemical Name CAS-Number	Colour/Form	Boiling Point (°C)	Melting Point (°C)	Molecular Weight	Solubility in Water	Relative Density (water=1)	Relative Vapour Density (air=1)	Vapour Pressure/ (Kpa)	Inflam. Limits	Flash Point (°C)	Auto Ignition Point (°C)
ANTHRACENE 120-12-7	monoclinic plates from alcohol recrystallization; when pure, colourless with violet fluorescence; when crystallized from benzene, colourless, lustrous plates are formed which exhibit a blue fluorescence; yellow crystals with blue fluorescence	342	218	178.22	insol	1.283 @ 25 °C	6.15	1 mm Hg @ 145 °C	0.6 ll ? ul	121 cc	540
BENZ(a)ANTHRACENE 56-55-3	colourless/ plates recrystallized from glacial acetic acid or alcohol	400	162	228.3	0.014 mg/l @ 25 °C			5x10 ⁻⁹ torr			
BENZO(g,h,i)FLUOR- ANTHENE 203-12-3	crystals		149		insol			<10 Pa			
BENZO(g,h,i)PERYLENE 191-24-2	large, pale yellow-green plates (recrystallized from xylene)	550	277	276.3	insol			1.0x 10 ⁻¹⁰ mm Hg @ 25 °C			
BENZO(k)FLUORAN- THENE 207-08-9	pale yellow needles from benzene	480	217	252.3	insol			9.59x10 ⁻¹¹ torr			
BENZO(a)PYRENE 50-32-8	pale yellow monoclinic needles from benzene & methanol; crystals may be monoclinic or orthorhombic; yellowish plates (from benzene and ligroin)	>360	179- 179.3	252.30	insol	1.351	8.7	>1 mm Hg			
BENZO(b)FLUORANTHE NE 205-99-2	needles (recrystallized from benzene), colourless needles (recrystallized from toluene or glacial acetic acid)		168	252.3	insol			<10 Pa			
CHRYSENE 218-01-9	red blue fluorescent rhombic plates from benzene, acetic acid; orthorhombic bipyramidal plates from benzene; colourless platelets with blue fluorescence	448	255-256	228.28	insol	1.274		6.3x 10 ⁻⁷ mm Hg			
DIBENZ(a,h)ACRIDINE 226-36-8	yellow crystals		228	279.35							

DIBENZ(a,h)ANTHRACENE 53-70-3	colourless plates or leaflets recrystallized from acetic acid; solution in concentrated sulfuric acid is red; crystals may be monoclinic or orthorhombic	524	266	278.33	insol	1.282		1x 10 ⁻¹⁰ mm Hg			
DIBENZ(a,j)ACRIDINE 224-42-0	yellow needles or prisms		216	279.35							
DIBENZO(a,e)PYRENE 192-65-4	pale yellow needles in xylene; yellow-red in concn sulfuric acid solution		234	302.4							
DIBENZO(a,h)PYRENE 189-64-0	golden yellow plates from xylene or trichlorobenzene; in H ₂ SO ₄ solution has red colour, changing later into violet or blue		308	302.38							
DIBENZO(ai)PYRENE 189-55-9	greenish-yellow needles, prisms or lamellae	275 @ 0.05 mm Hg	281	302.4				2.39x 10 ⁻¹⁴ mm Hg			
DIBENZOFURAN 132-64-9	leaf or needles from alcohol; white crystals; crystalline solid	287		168.19	10 ppm @ 25 °C	1.0886 @ 99 °C/4 °C	5.8	0.0044 mm Hg @ 25 °C			
FLUORANTHENE 206-44-0	coloured needles; pale yellow needles or plates from alcohol	375	111	202.2	insol	1.252 @ 0 °C/4 °C		0.01 mm Hg			
NAPHTHACENE 83-32-9	white needles; orthorhombic bipyramidal needles from alcohol	279	95	154.21	insol	1.0242 at 90 °C/4 °C	5.32	10 mm Hg at 131.2 °C			
PHENANTHRENE 85-01-8	monoclinic plates from alcohol; colourless shining crystals; leaflets	340	101	178.22	insol	0.9800 @ 4 °C	6.15	1 mm Hg @ 118.2 °C		171 oc	
PYRENE 129-00-0	monoclinic prismatic tablets from alcohol or by sublimation; pure pyrene is colourless; pale yellow plates (when recrystallized from toluene); colourless solid (tetracene impurities give yellow colour)	393	156	202.2	insol	1.271 @ 23 °C		6.85x10 ⁻⁷ torr @ 20 °C			