

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)
CALCIUM PHOSPHIDE 1305-99-3	red-brown crystalline powder or gray lumps		1600	182.20		2.51					
DIBUTYL PHENYL PHOSPHATE 2528-36-1	clear slightly yellow liquid	131-132		286.34	sl sol	1.0691 @ 25 °C/ 25 °C		0.007 torr @ 25 °C		129 cc; 177 oc	
DIBUTYL PHOSPHATE 107-66-4	pale amber liquid			210.21	insol	1.06		1 mm Hg			
DIETHYLTHIOPHOS- PHORYL CHLORIDE 2524-04-1	colourless to light amber liquid	>110	<-75	188.62	insol	1.196 @ 25 °C/ 25 °C		0.25 @ 50 °C		110	
DIMETHYL HYDROGEN PHOSPHITE 868-85-9	mobile, colourless liquid	72-73 @ 25 mm Hg		110.05	sol	1.200					
HEXAMETHYL PHOSPHORAMIDE 680-31-9	colourless, mobile liquid	233	5-7	179.24	misc	1.03	6.18	0.03 mm Hg			
PHENYLPHOSPHINE 638-21-1		160.5		110.09		1001 @ 15 °C					
PHOSPHINE 7803-51-2	colourless gas	-87.7	-133	34.00	sl sol	0.75	1.17	3530	1.79 ll ? ul	flammabl e gas	100-150
PHOSPHORUS 7723-14-0	white: colourless or white, transparent, crystalline solid; waxy appearance; yellow: white to yellow, soft, waxy solid; black: polymorphic, orthorhombic crystalline form, amorphous form; red: red to violet powder; polymorphism; violet: violet monoclinic	Yellow: 280; Red: 280 (ignites @ 200)	Yellow: 44.1; Violet: 590; Red: 590 @ 43 atm	30.9737	insol	Red: 2.34; Violet: 2.36; Black: 2.70; Yellow: 1.82	Red: 4.77; White: 4.42	3.5 Pa			Red: 260; white: 30
PHOSPHORUS PENTACHLORIDE 10026-13-8	white to pale yellow crystalline mass; tetragonal crystals	160	148	208.27		4.65 g/l @ 296 °C (GAS)		133 Pa @ 55.5 °C			
PHOSPHORUS PENTASULPHIDE 1314-80-3	gray-yellow crystals; light yellow, triclinic crystals; solid flakes or powder; greenish gray color	513-515	286-290	222.29	insol			1 mm Hg @ 300 °C			260-290 dust; 275 liquid

PHOSPHORUS PENTOXIDE 1314-56-3	white monoclinic or powdery crystals; /there are/ several crystalline & amorphous modifications; commercial form, hexagonal	300 sublimes	580-5	141.96	v sol	2.39		1 @ 384 °C			
PHOSPHORUS TRICHLORIDE 7719-12-2	colourless, clear, liquid	76	-112	137.35	reacts	1.574 @ 21 °C	4.75	12.7			
PHOSPHORYL-OXY- CHLORIDE 10025-87-3	colourless to light yellow, oily liquid	105.8	1.25	153.33		1.645 @ 25 °C/4 °C	5.3	40 mm Hg @ 27.3 °C			
TETRAPHOSPHORUS TRISULPHIDE 1314-85-8	yellowish-green, long, rhombic needles from benzene	407.5	172.5	220.08	insol	2.03 @ 20 °C/ 4 °C					100
TETRAPOTASSIUM PYROPHOSPHATE 7320-34-5	white granules or powder		1090		v sol						
TETRASODIUM PYROPHOSPHATE 7722-88-5	crystals; colourless, transparent crystals or white powder		988	265.94	2.61 g/100 ml @ 0 °C; 6.7 g/100 ml @ 25 °C	2.534					
THIOPHOSPHORYL CHLORIDE 3982-91-0	colourless liquid; crystallizes as alpha-form at -40.8 °C or as beta-form at -36.2 °C	125	-35	169.41	decomposes	1.635	5.86	2.9 @ 25 °C			
TRIBUTYL PHOSPHATE 126-73-8	colourless liq	289	<80	266.32	sol	0.976 @ 25 °C/ 25 °C	9.20	17 @ 177 °C		146	410
TRICRESYL PHOSPHATE 1330-78-5	practically colourless liquid	420			0.36 mg/l @ 25 °C	1.162 @ 25/25 °C					410
TRI- <i>o</i> -CRESYL PHOSPHATE 78-30-8	colourless or pale yellow liq	410	11	368.37	insol	1.1955	12.7	10 mm Hg @ 265 °C		225	385
TRIETHYL PHOSPHATE 78-40-0	liquid; colourless	215.5	-56.4	182.16	sol	1.0695	6.28	1 mm Hg @ 39.6 °C			
TRIETHYL PHOSPHITE 122-52-1	colourless liquid	157.9	-112	166.16	insol	0.9629		0.6		52	250
TRIMETHYL PHOSPHATE 512-56-1	colourless liquid	197.2	-46	140.08	v sol	1.2144					
TRIMETHYL PHOSPHITE 121-45-9	colourless liquid	111.5		124.08		1.0520	4.3				
TRIPHENYL PHOSPHATE 115-86-6	crystals from absolute alcohol-ligroin, prisms from alcohol, needles from ether-ligroin; colourless crystalline powder; white platelets	245 @ 11 mm Hg	50	326.28	insol	1.2055 @ 50 °C/4 °C	1.19	1 mm Hg @ 193.5 °C			

TRIPHENYL PHOSPHINE 603-35-0	monoclinic platelets or prisms from ether; white crystalline solid	>360	80.5	262.28	insol	1.075 @80 °C/4 °C	9.0			180 oc	
TRIPHENYL PHOSPHITE 101-02-0	water-white to pale yellow solid or oily liquid	360	25	310.29	insol	1.1844				218 oc	
TRIS-2,3-DIBROMO- PROPYL PHOSPHATE 126-72-7	viscous, pale yellow liquid; dense, nearly colourless liquid		FP 5.5	697.93	8.0 mg/l	2.27 @ 25 °C		0.00019 - mm Hg @ 25 °C			
TRIS(2-ETHYLHEXYL) PHOSPHATE 78-42-2	viscous liquid	220 @ 5 mm Hg	-74	434.72	insol	0.926	14.95	0.25 @ 200 °C		207	