

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)
BROMINE 7726-95-6	dark reddish-brown liquid; reddish-brown vapor; rhombic crystals	58.78	-7.25	159.808	3.58 g/ 100 ml	3.1023 @ 25 °C/4 °C	5.51 @ 15 ° C	23.3			
BROMINE PENTAFLUORIDE 7789-30-2	colourless liquid; colourless gas above 40.3 °C	40.76	-60.5	174.90	reacts	2.4604 @ 25 °C	6.05	53.5 @ 25.5 °C			
CARBONYL FLUORIDE 353-50-4	colourless gas	-83	-114	66.01	reacts	1.139 @ 25 °C	2.3				
CHLORINE 7782-50-5	greenish-yellow, diatomic gas	-34.6	-100.98	70.906	0.57 g/100 ml @ 30 °C	1.4085;6.864 atm	2.5	638			
CHLORINE OXIDE 10049-04-4	yellow to reddish- yellow gas at room temp; solid chlorine dioxide is a yellowish-red crystalline mass; liquid is reddish- brown	11	-59	67.46	3.01 g/l @ 25 °C and 34.5 mm Hg	1.642 @ 0 °C	2.3	10	>10		
CHLORINE TRIFLUORIDE 7790-91-2	colourless gas; liquid is yellow-green in colour; solid is white	11.75	-76.34	92.46	reacts	1.77 @ 13 °C	3.18	400 mm Hg @ -4.9 °C; 740 mm Hg @ 11.5 °C			
FLUORINE 7782-41-4	pale yellow; greenish yellow gas	-188.13	-219.61	37.99	reacts	1.51 @ -188.2 °C	1.3	1 mm Hg @ - 223.0 °C; 10 mm Hg @ -214.1 °C			
HYDROGEN FLUORIDE 7664-39-3	colourless liquid	20	-83	20.0	misc	0.991 @ 19.54 °C	0.922 g/ l @ 0 °C	400 mm Hg @ 2.5 °C			
IODINE 7553-56-2	bluish-black scales or plates; diatomic; rhombic, violet-black crystals with metallic luster	184.35	113.50	253.81		4.93 @ 25 °C (solid)	6.75 g/l (gas)	1mm Hg @ 38.7 °C (solid)			
NITROGEN CHLORIDE 10025-85-1	yellow oil ot rhombic crystals	<71	<-40	120.37	insol cold water, decomposes hot water	1.653					
NITROGEN TRIFLUORIDE 7783-54-2	colourless gas	-129	-208.5	71.01	sl sol	1.885 @ -129 °C (liquid)					
OXYGEN DIFLUORIDE 7783-41-7	colourless gas; yellowish- brown when liquid	-144.8	-223.8	54.00	insol hot water; sl sol and decomposes	1.90 @ -233.8 °C (liquid)	1.8	760 mm Hg @ -144.6 °C			

					cold water						
PERCHLORYL FLUORIDE 7616-94-6	colourless gas	-46.8	-146	102.45	misc	0.637 (gas); 1.434 (liquid)	3.5	1.06			
PHOSGENE 75-44-5	colourless gas	8	-118	98.92	sl sol	1.381	3.4	161.6			
PHOSPHORUS PENTABROMIDE 7789-69-7	yellow crystalline mass	106 decomp		430.49	decomposes						
PHOSPHOROUS TRIBROMIDE 7789-60-8	colourless liquid; pale yellow liquid	173.2	-41.5	270.73		2.85 @ 15 °C		10 mm Hg @ 47.8 °C			
SODIUM HEXAFLUOROSILICATE 16893-85-9	white granular powder			188.05	sol	2.68					
SULPHUR CHLORIDE 10025-67-9	light amber to yellowish red oily liquid	135.6	-77	135.03	reacts	1.6885 @ 15.5 °C/- 15.5 °C	4.66	0.906		118 cc	234
SULPHUR DICHLORIDE 10545-99-0	dark red liquid; *reddish brown liquid	59 (decomp)	-78	102.96		1.621 @ 15 °C/15 °C	3.55	7.6 mm Hg @ -23 °C			
SULPHUR HEXAFLUORIDE 2551-62-4	colourless gas; liquid at - 50.5 °C	-63.8 sublimes	-50.8	146.06	sl sol	1.88 @ -50 °C (liquid)	5.1	2140			
SULPHURYL FLUORIDE 2699-79-8	colourless gas	-55.38	-135.82	102.07	4-5 ml gas/ 100 ml	3.72 g/l (gas), 1.7 g/l (liquid)	3.5	1.7 mPa @ 25 °C			