Oxyacids of sulphur: All are dibasic acids

 $H_2SO_3 \rightarrow Sulphurous acid$

 $H_2SO_4 \rightarrow Sulphuric acid$

 $H_2SO_5 \rightarrow Per - oxo - monosulphuric acid or Caro's acid$

 $H_2S_2O_2 \rightarrow Thiosulphurous$

 $H_2S_2O_3 \rightarrow Thiosulphuric$

 $H_2S_2O_4 \rightarrow Dithionous$ acid or hyposulphurous acid

 $H_2S_2O_5 \rightarrow Pyro-sulphurous$ acid

 $H_2S_2O_6 \rightarrow Dithionic acid or hyposulphuric acid$

 $H_2S_2O_7 \rightarrow Pyro sulphuric acid or oleum / disulphuric acid$

 $H_2S_2O_8 \rightarrow Per-oxo-disulphuric acid or marshals acid$

 $H_2S_{n+2}O_6 \rightarrow Poly thionic acid [n = 1 - 10]$

OXYACIDS OF SULPHUR:

Formula	Structure	Oxidation Number	No.of (p-d)⊡ bonds	Average oxidation state of sulphur	Basicity
H ₂ SO ₃	OH – S – OH 	+ 4	1		2
H ₂ SO ₄	O OH – S – OH O	+ 6	2		2
H₂SO₅	O OH – S – O – OH O	+ 6	2		2
H ₂ S ₂ O ₂	OH - S - OH S-2	- 2, + 4	1		2
H ₂ S ₂ O ₃	O OH - S - OH S-2	- 2, + 6	2		2
H ₂ S ₂ O ₄	OH-S-S-OH O O	(+3, +3)	2	+ 3	2
H ₂ S ₂ O ₅	O OH - S- S- OH O O	(+ 5, + 3)	3	+ 4	2
H ₂ S ₂ O ₆	O O OH-S-S-OH O O	(+ 5, + 5)	4	+ 5	2

H ₂ S ₂ O ₇	O O	(+ 6, + 6)	4	+ 6	2
H ₂ S ₂ O ₈	O O	(+ 6, + 6)	4	+ 6	2
H ₂ S _{n+2} O ₆	O O	(+ 5, + 5)	4	+ 5	2