























<b>TABLE 17.3</b> Sulfur compounds and electron donors for sulfate reduction	
Compound	Oxidation state
Oxidation states of key sulfur cor	npounds
Organic S (R—SH)	-2
Sulfide (H <sub>2</sub> S)	-2
Elemental sulfur (S <sup>0</sup> )	0
Thiosulfate $(S_2O_3^{2-})$	+2 (average per S)
Sulfur dioxide $(SO_2)$	+4
Sulfite $(SO_3^{2-})$	+4
Sulfate $(SO_4^{2-})$	+6
Some electron donors used for su	lfate reduction
H <sub>2</sub>	Acetate
Lactate	Propionate
Pyruvate	Butyrate
Ethanol and other alcohols	Long-chain fatty acids
Fumarate	Benzoate
Malate	Indole
Choline	Hexadecane

































