

Table 2: Mössbauer Properties of Species Observed in Reactions of the Reduced sMMO Hydroxylase with Nitric Oxide

Species	% of $H_{\text{red}}+\text{NO}$ Reaction	% of $H_{\text{red}}+2\text{B}+\text{NO}$ Reaction	Mössbauer Properties	
			δ (mm/s)	ΔE_Q (mm/s)
mononuclear $\{\text{Fe}(\text{NO})\}^7$	36	10	0.7	-1.7
mononuclear Fe(III)	6	3	0.5	0.5
H_{red}	8	7	1.30	2.87
H_{ox}	6.5	38	0.49	1.12
$H_{\text{dinitrosyl}}$	6.5	23.1	0.75	1.30
“unidentified”	38	23.3	0.2	1.08