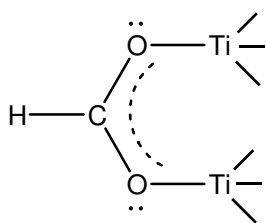


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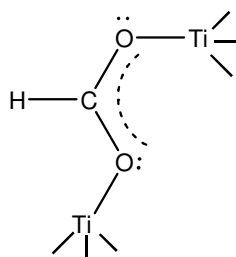
Spectroscopic investigation of the anatase to rutile transformation of sol-gel synthesised TiO₂ photocatalysts

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Spectroscopic analysis concluded that the *syn-anti* binding of formate group in the titania photocatalyst precursor hinders cross linking of the gel network, resulting in a weakened structure and thus causing the anatase to rutile transformation temperature to occur at a lower temperature than with the *syn-syn* mode of binding where more ordered gel networks are formed.



(a): *syn-syn*



(b): *syn-anti*