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**Synthesis and coordination chemistry of doubly tridentate tripodal pyridazine and pyrimidine-derived ligands: structural interplay between  $M_2L$  and  $M_2L_2$  ( $M = Ni$  and  $Pd$ ) complexes and magnetic properties of iron(II) complexes**

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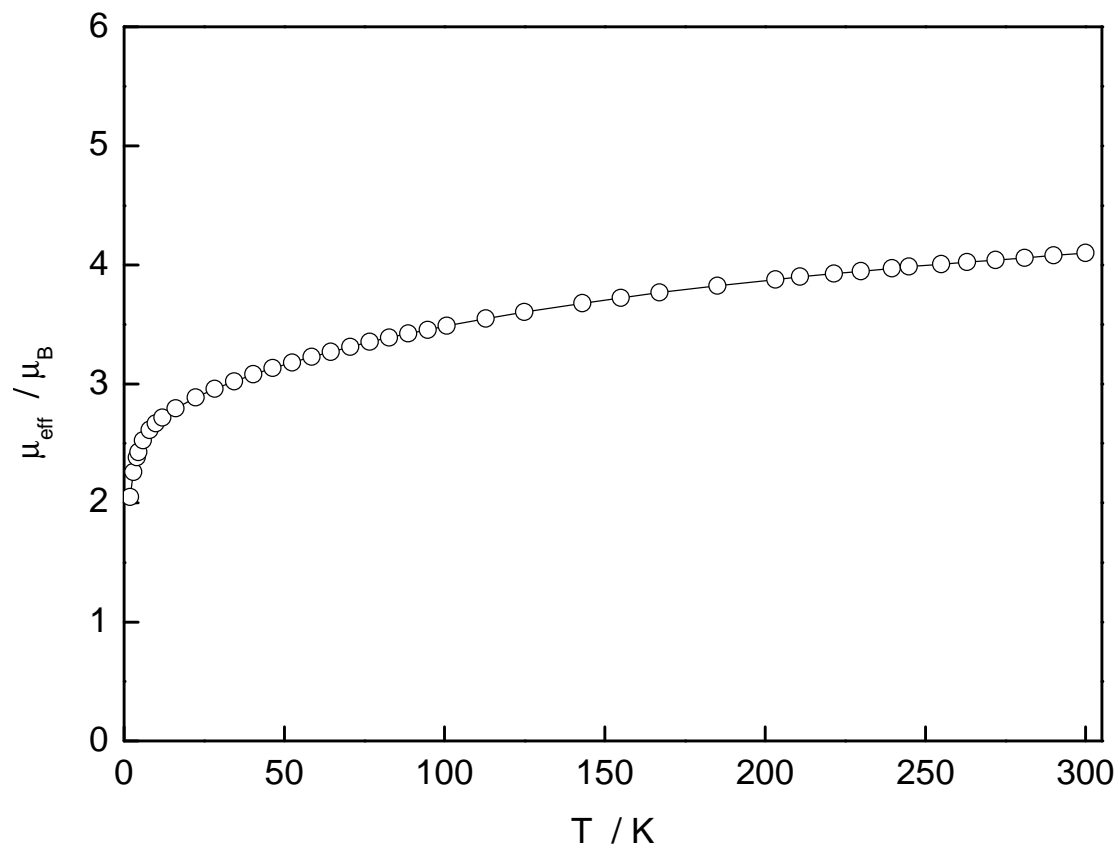
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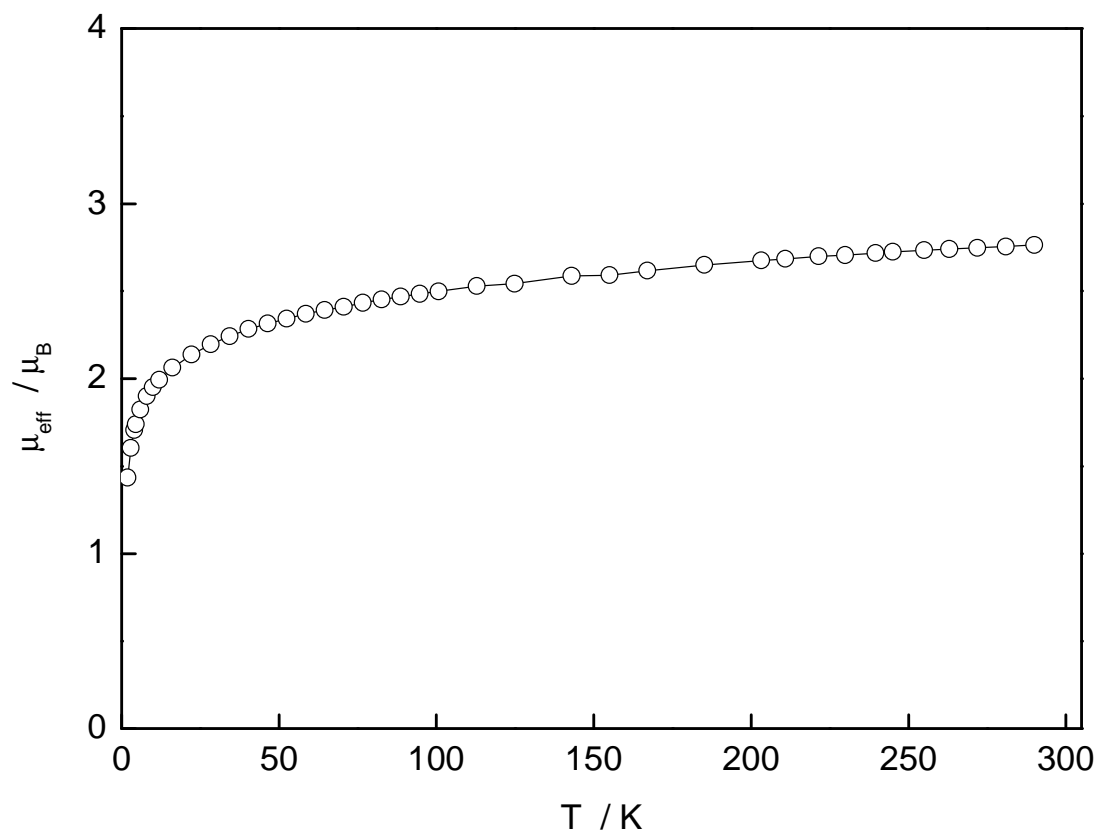
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### Magnetic moment plots for compounds 9 and 10



Plot of magnetic moment, per  $\text{Fe}_2$ , versus temperature for **9**. The solid line is a guide to the eye. Applied field value = 10,000 Oe.



Plot of magnetic moment, per Fe<sub>2</sub>, versus temperature for **10**. The solid line is a guide to the eye. Applied field value = 10,000 Oe.