

REACTIONS OF CF_3NO AND $(\text{CF}_3)_2\text{NO}$ WITH INORGANIC HYDRIDES

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Reactions of CF_3NO and $(\text{CF}_3)_2\text{NO}$ with hydrides of phosphorus, arsenic and germanium have in some cases led to interesting and novel unsaturated compounds containing $\text{P}=\text{N}$, $\text{As}=\text{N}$ and $\text{Ge}=\text{N}$ double bonds. Chemical and spectroscopic methods of characterising them will be discussed. Extending the reactions to metal cluster hydrides afforded new cluster derivatives. The $(\text{CF}_3)_2\text{NO}$ ligand exhibit hindered rotation as displayed by the ^{19}F NMR and supported by x-ray diffraction data.