

**Zwitterionic rhodium complex catalyzed hydroaminomethylation of arylenes.**

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**Abstract**

The hydroaminomethylation of arylenes was achieved in high regioselectivity using the zwitterionic rhodium complex  $[\text{Rh}^+(\text{cod})(\eta^6\text{-PhBPh}_3)^-]$  as the catalyst under relatively mild conditions. Thus, the corresponding branched methylated amines were obtained under relatively low pressure of syngas.