The Influence of the Nitroxide Structure on Homolysis Rate of Alkoxyamines: A Taft-Ingold Analysis.

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Table. Reestimated Steric Constants r .

Nitroxide	group	$r(X)$	Nitroxide	group	$r(X)$	Nitroxide	group	$r(X)$
18	Ph	-1.62	24	P(O)Me ₂	-1.80 ^a	3	CR ₂ C(O)NRCH ₂ CR ₂	+0.09
16	Ph	-1.21	11	CR ₂ (CH ₂) ₂ CR ₂	+0.31	7	CR ₂ C(O)NRCH ₂ CR ₂	+0.12
17	Ph	-1.32	12	CR ₂ (CH ₂) ₂ CR ₂	+0.29	2	CR ₂ C(O)NRCH ₂ CR ₂	+0.11
15	Ph	-1.16	13	CR ₂ (CH ₂) ₂ CR ₂	+0.39 ^b	4	CR ₂ C(O)NRCH ₂ CR ₂	+0.10
22	PO(OEt) ₂	-1.21	14	CR ₂ (CH ₂) ₂ CR ₂	+0.62 ^b	6	CR ₂ C(O)NRCH ₂ CR ₂	+0.07
21	PO(OEt) ₂	-1.30	8	CR ₂ (CH ₂) ₃ CR ₂	+0.22	5	CR ₂ C(O)NRCH ₂ CR ₂	+0.12
20	PO(OEt) ₂	-1.14	9	CR ₂ (CH ₂) ₃ CR ₂	+0.23	10	CR ₂ CH ₂ C(O)CH ₂ CR ₂	+0.07
23	PO(OEt)Me	-1.62	1	CR ₂ C(O)NRCH ₂ CR ₂	+0.12			

^a Average of the values for the two isomers: -2.02 and -2.18.

^b See text.