

# CHEMPHYSCHEM

## Supporting Information

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EFFECT OF CARBOXYLATE-SALT ON THE C—ON BOND HOMOLYSIS OF SG1 (*N*-(2-METHYL-2-PROPYL)-*N*-(1-DIETHYLPHOSPHONO-2,2-DIMETHYLPROPYL)-*N*-OXYL) – BASED ALKOXYAMINES: DFT CALCULATIONS, NATURAL BOND ORBITAL (NBO) ANALYSIS, AND KINETIC STUDY

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**Table S1.** Solubility of alkoxyamines **1a-f** in various solvents (μL).

Solvents	Alkoxyamines					
	<b>1a</b>	<b>1b</b>	<b>1c</b>	<b>1d</b>	<b>1e</b>	<b>1f</b>
Acétone	100	100	200	100	100	100
Acetonitrile	[a]	[a]	[a]	200 <sup>[b]</sup>	200 <sup>[b]</sup>	200
Ether	200	300	300	200	[a]	1000
Benzene	100	100 <sup>[b]</sup>	200	100	200	100
Chloroforme	100	100	200	100	200	200
Cyclohexane	200	200	300	100	200	300
Dichloromethane	200	300	100	100	200	200
Dioxane	200	300	300	100	300	300
Ethanol	300	300	200	200	200	200
Ethyl Acetate	100	100	300	100	[a]	1000
Methanol	[a]	[a]	300	200 <sup>b</sup>	[a]	1000
Pentane	200	300	300	200	[a]	1000

THF	100	100	200	100	200	200
Triethylamine	100	200	100	100	200	200
Water	200	300	300	200 <sup>b</sup>	200 <sup>[b]</sup>	400

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<sup>[a]</sup> Alkoxyamine not soluble even in 1 ml. <sup>[b]</sup> Blurry solution.

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