

### Hydrolysis half-lives at pH8, 25°C

PEG NHS Ester	Ester (Symbol)	Half-life (minutes) <sup>a</sup>
PEG-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -CO <sub>2</sub> -NHS	Succinimidyl valerate (SVA)	33.6
PEG-O-CO <sub>2</sub> -NHS	Succinimidyl Carbonate (SC)	20.4
PEG-O <sub>2</sub> C-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -CO <sub>2</sub> -NHS	Succinimidyl Glutarate (SG)	17.6
PEG-O <sub>2</sub> C-CH <sub>2</sub> CH <sub>2</sub> -CO <sub>2</sub> -NHS	Succinimidyl Succinate (SS)	9.8
PEG-O-CH <sub>2</sub> -CO <sub>2</sub> -NHS	Succinimidyl Carboxymethylated (SCM)	0.75
PEG-O-CH <sub>2</sub> CH <sub>2</sub> -CO <sub>2</sub> -NHS	Succinimidyl Propionate (SPA)	16.5

Comparison of reactivity of various PEG reagents as measured by hydrolysis half-lives at pH 8, 25°C, for PEG active esters measured by following UV absorbance of the succinimidyl (NHS) group.

a Aminolysis rates parallel hydrolysis rates