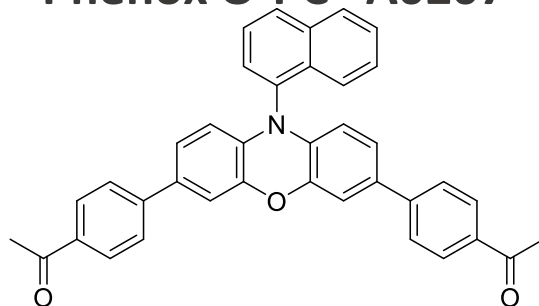


## Phenox O-PC™ A0207



### Physical properties

Product name	Phenox O-PC™ A0207
Scientific name	1,1'-((10-(naphthalen-1-yl)-10H-phenoxazine-3,7-diyl)bis(4,1-phenylene))bis(ethan-1-one)
MilliporeSigma catalog #	N/A
CAS number	N/A
Formula	C <sub>38</sub> H <sub>27</sub> NO <sub>3</sub>
Molecular weight	545.64
Appearance	Yellow powder or crystals
Purity	≥ 97%
Maximum solubilities at 25°C	Water: TBD DMSO: TBD MeOH: TBD DMF: TBD MeCN: TBD DCM: TBD Toluene: TBD

### Photo/electrochemical properties

Character	Strong reductant/ energy transfer sensitizer
E°( <sup>2</sup> PC <sup>•+</sup> / <sup>1</sup> PC <sup>*</sup> )	-1.47 V vs. SCE
E <sub>1/2</sub> ( <sup>2</sup> PC <sup>•+</sup> / <sup>1</sup> PC)	0.74 V vs. SCE (reversible CV)
λ <sub>max,em</sub>	560 nm (2.21 eV)
λ <sub>max,abs</sub>	410 nm
ε <sub>max,abs</sub>	24700 M <sup>-1</sup> cm <sup>-1</sup>
Application notes	<ul style="list-style-type: none"> <li>• C-N, C-O, C-S, and C-C cross-couplings.</li> <li>• Reduction of alkyl halides for vinyl or aromatic addition/ substitution (e.g. trifluoromethylation)</li> <li>• Atom transfer radical polymerization</li> </ul>

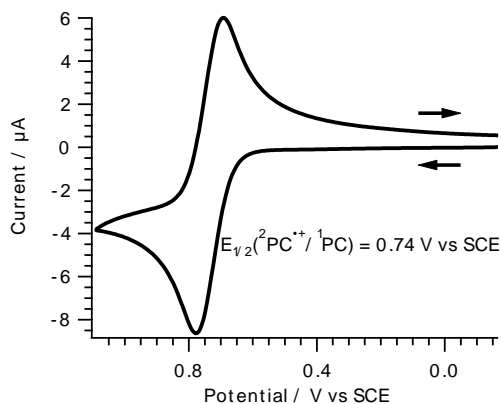


Figure 1: Cyclic voltammetry for 1e<sup>-</sup> oxidation of ground state <sup>1</sup>PC in DMF with 0.1 M TBAPF<sub>6</sub> at 100 mV/s.

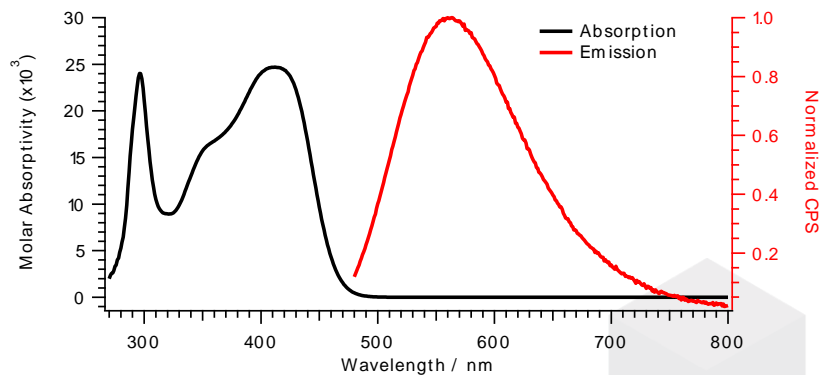


Figure 2: UV-vis absorption and emission spectrum in DMF.