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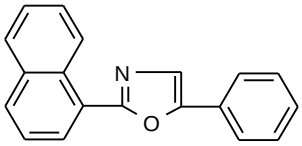
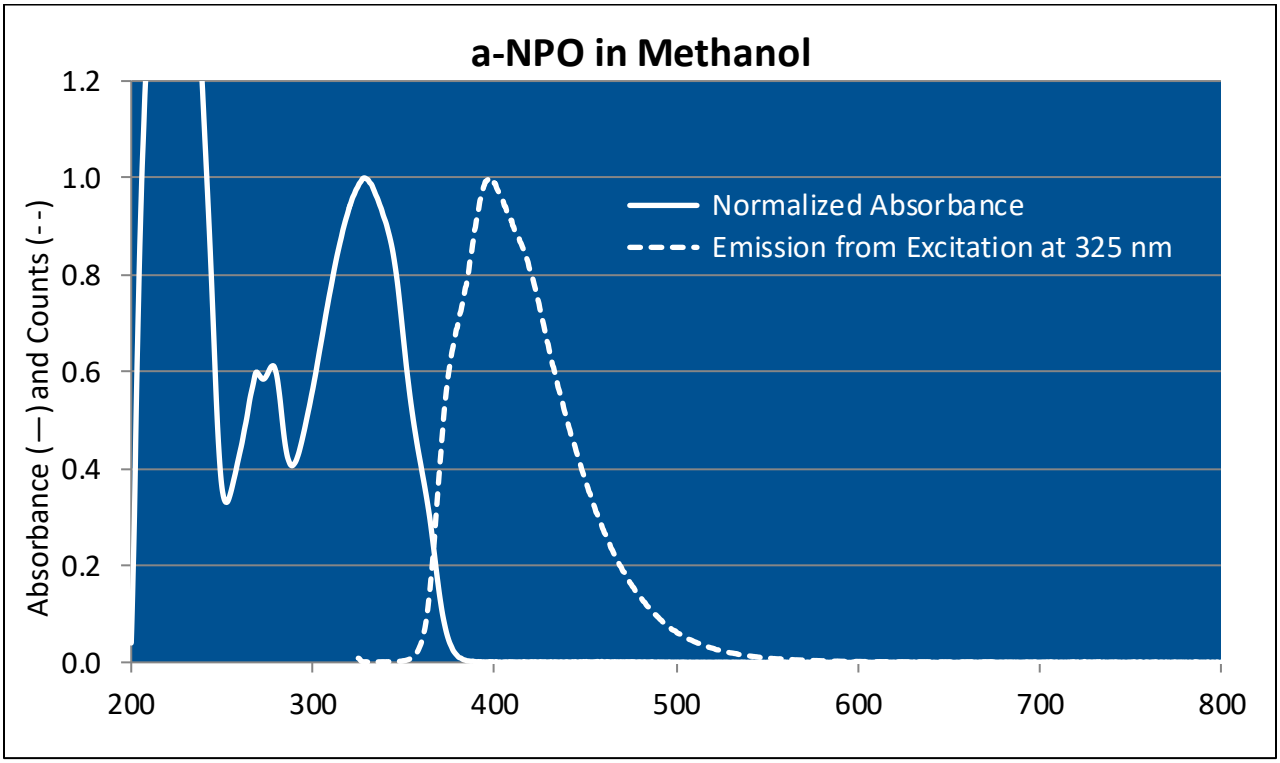
α-NPO

Synonym: 2-(1-naphthyl)-5-phenyl-oxazole
Catalog No.: 04000
CAS No.: 846-63-9
Chemical Formula: $C_{19}H_{13}NO$ **MW:** 271.32
Appearance: White crystals
Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
400		FL[2]	Ethanol	2.5×10^{-4}	329[e]	398[e]
400		XeCl(308)[114]	Methanol		332[c]	391[c]
363/380	360-394	N_2(337)[119]	Ethanol	2×10^{-3}(PPF), 5×10^{-5}(α-NPO)		
	393-423	N_2(337)[4]	Toluene	2.5×10^{-3}		
400	391-425	N_2(337)[114]	p-Dioxane	2.6×10^{-3}		

c = cyclohexane; e = ethanol



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Quantum Yields and Lifetimes

Absorbance (nm)	Emission (nm)	Quantum Yield (max = 1.0)	Solvent	Lifetime (ns)	References, Notes
	395		Ethanol	2.29	C-3
~380	411.5		Ethanol	2.29	Berlman, 297

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