

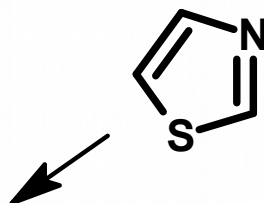
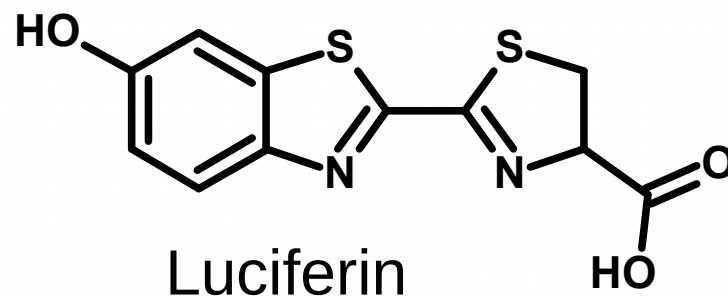
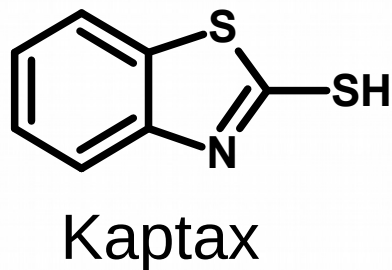
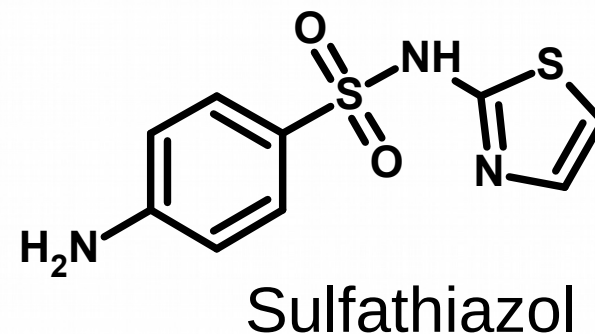
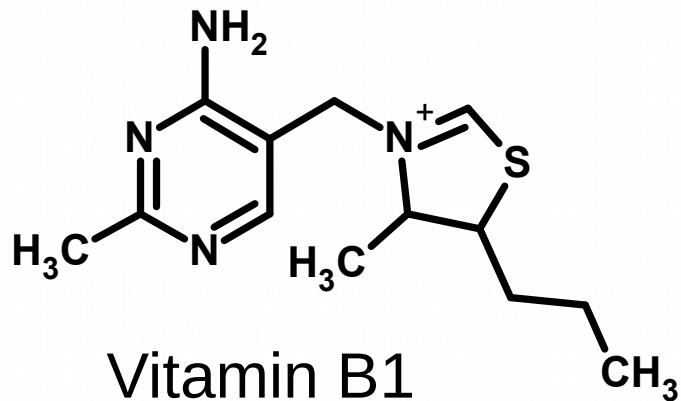
# Deriváty 1,3-thiazolu s fluorescenčními vlastnostmi

Martina Vacková

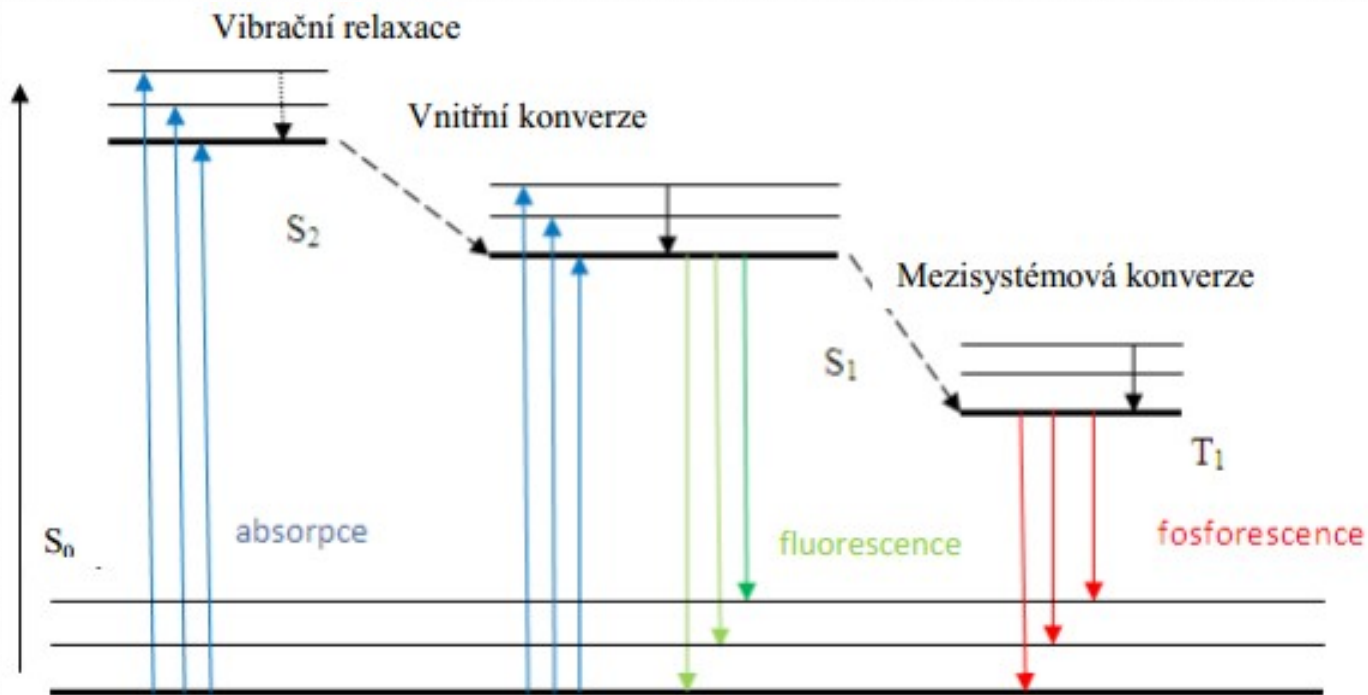
mentor: doc. Ing. Jiří Hanusek, Ph.D.

mentor-junior: Ing. Richard Kammel

# 1,3-thiazoly

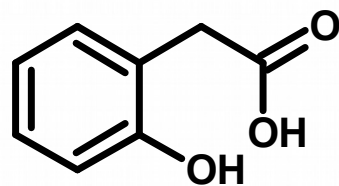
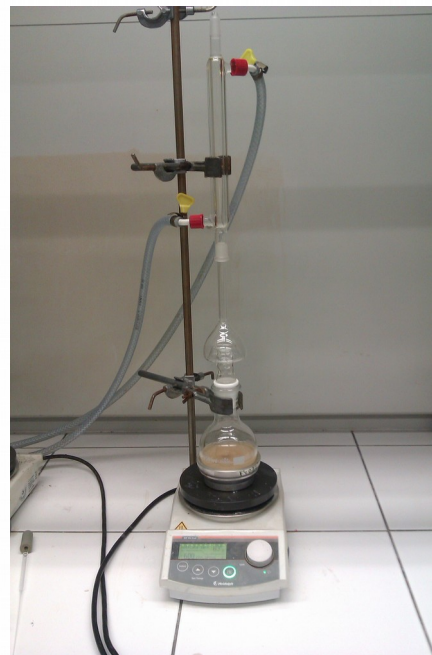
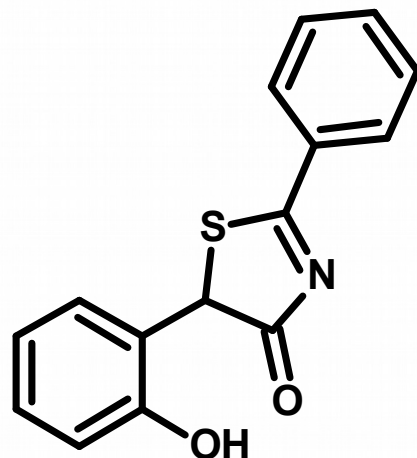


# Fotoluminescence



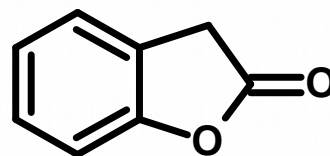
- Fluorimetr
- Kvantový výtěžek fluorescence

# Příprava 5-(2-hydroxyfenyl)-2-fenyl-1,3-thiazol-4(5H)-onu



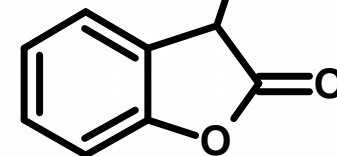
Azeotropická destilace

79%

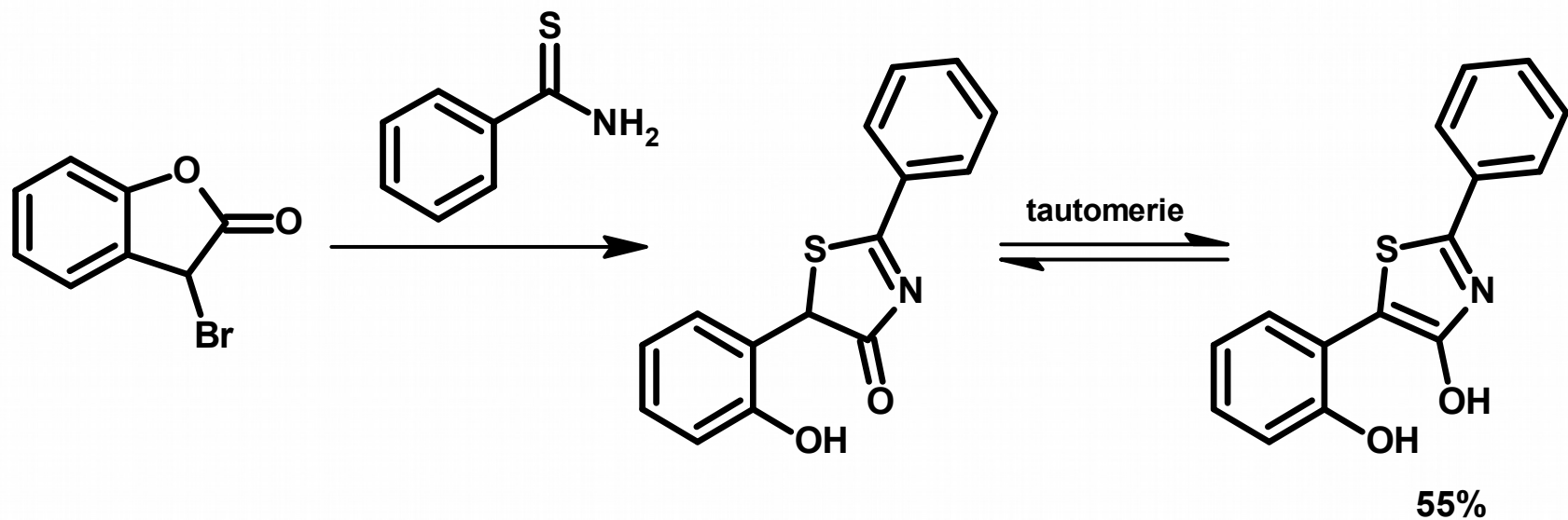


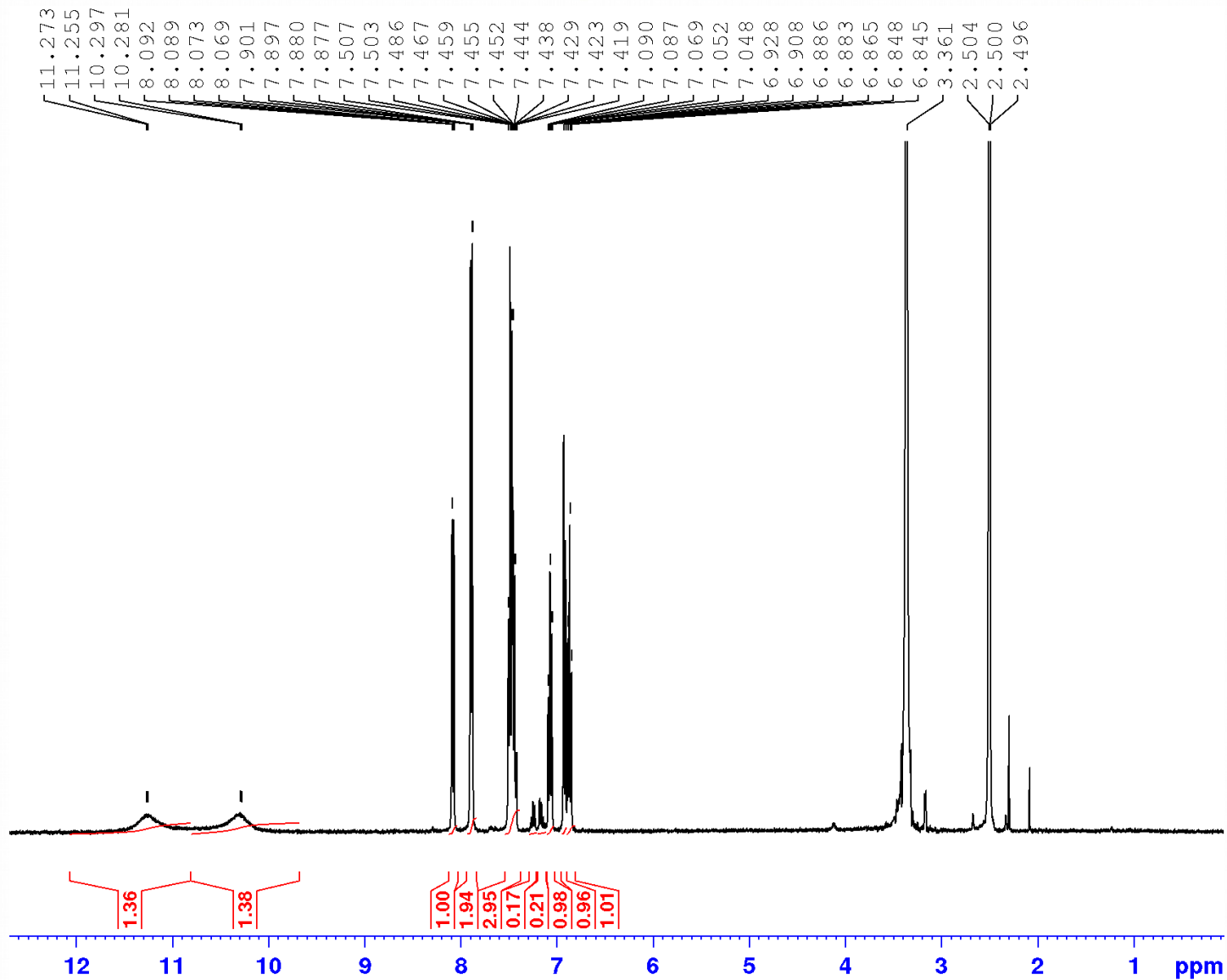
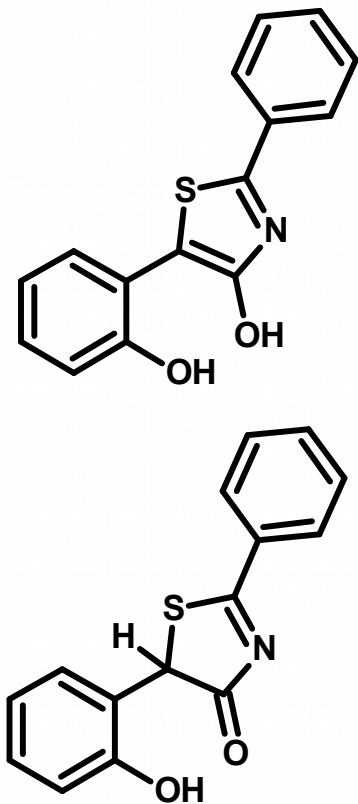
Brom-dioxan

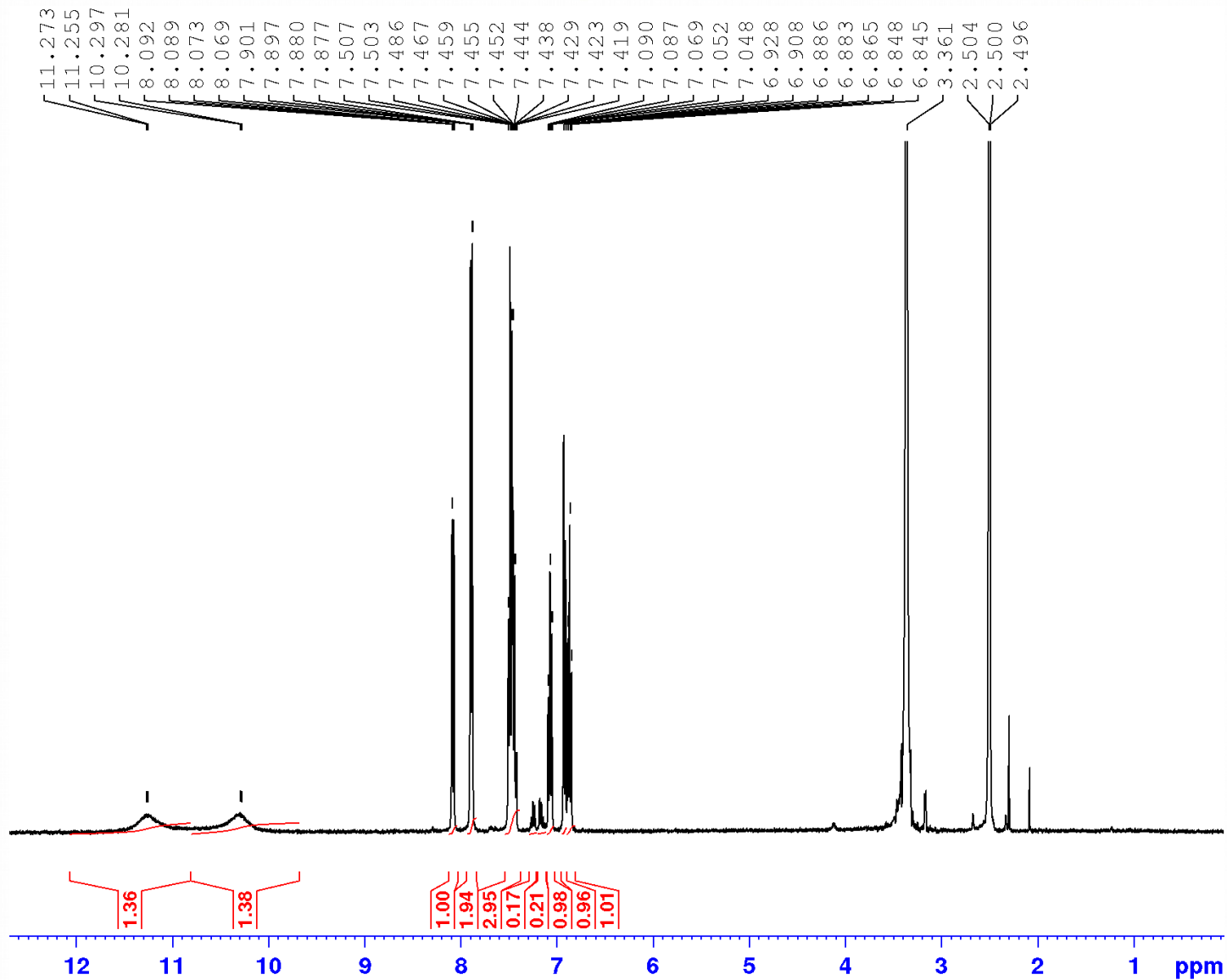
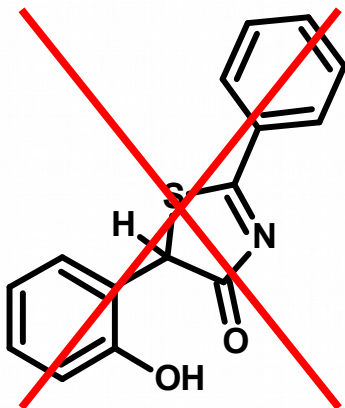
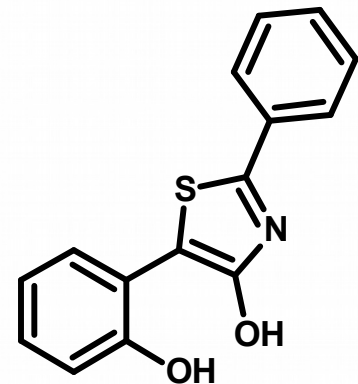
55% Br



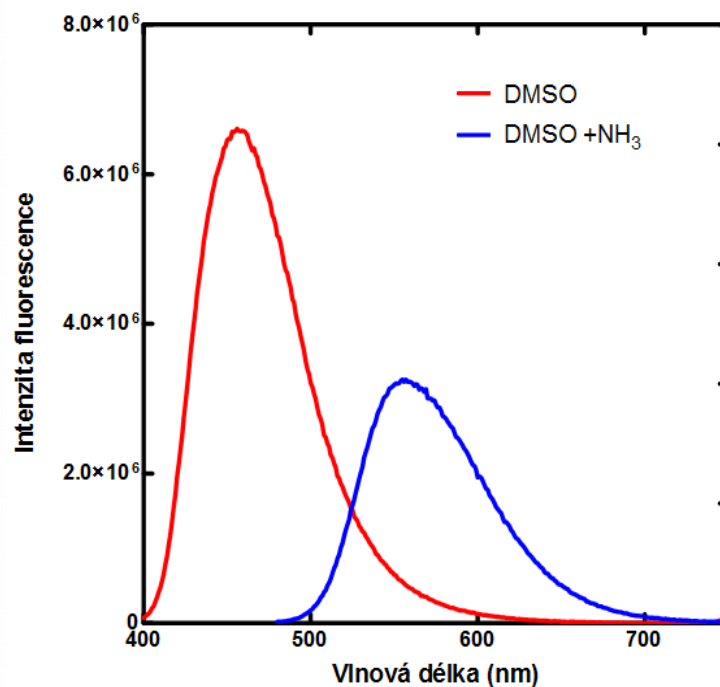
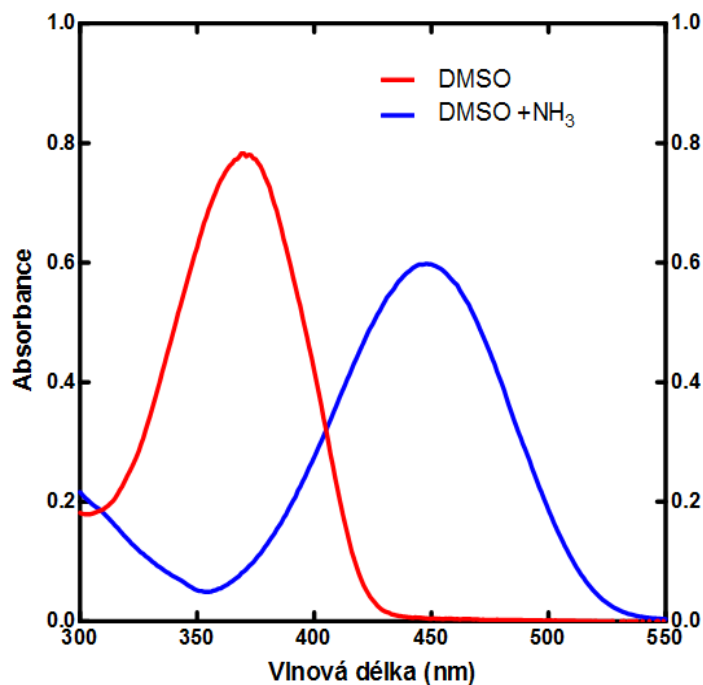
# Příprava 5-(2-hydroxyfenyl)-2-fenyl-1,3-thiazol-4(5H)-onu







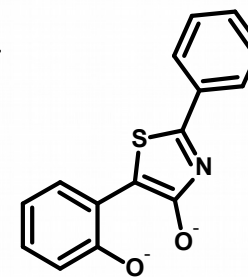
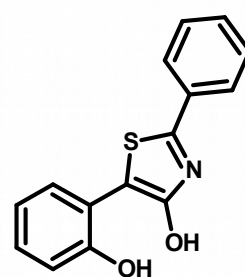
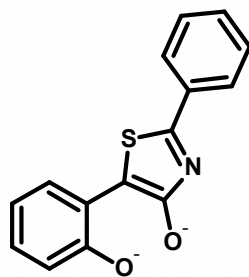
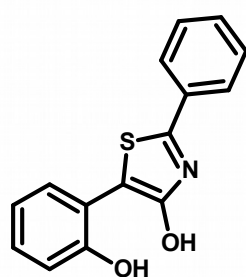
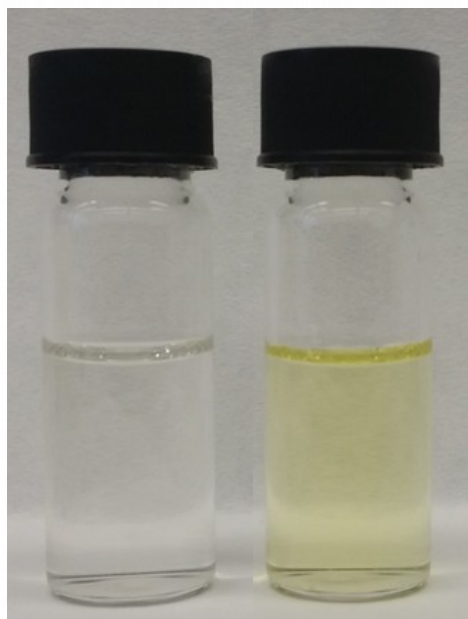
# Fluorescenční a acidobazické vlastnosti



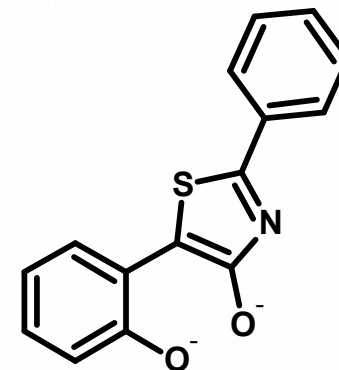
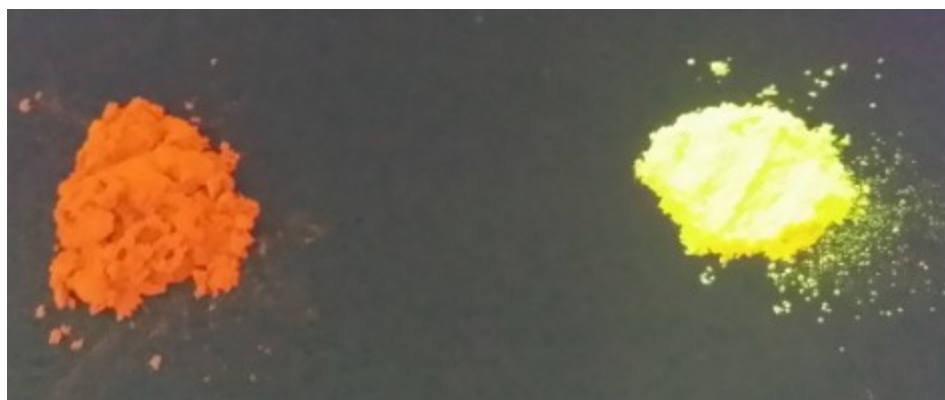
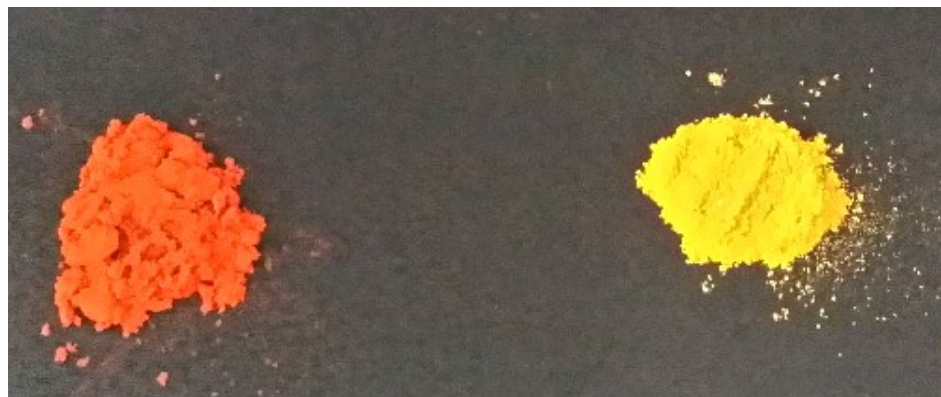
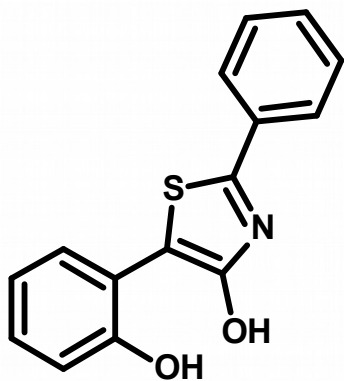
	Abs. $\lambda_{\text{MAX}}$ [nm]	Em. $\lambda_{\text{MAX}}$ [nm]	$Y_{\text{F}}$
Thiazol	373	455	0,97
Thiazol + $\text{NH}_3$	448	555	0,37



# Fluorescenční a acidobazické vlastnosti



# Fluorescenční a acidobazické vlastnosti



# Závěr

- Připraven 5-(2-hydroxyfenyl)-2-fenyl-1,3-thiazol-4-ol
- Charakterizace produktu
- Fluorescenční a acidobazické vlastnosti
- Kvantový výtěžek fluorescence
- Využití

# Děkuji na pozornost



