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Supporting Information

Ratiometric fluorescent pH probes based on aggregation-induced emission-active salicylaldehyde azines

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Fig. S1 Emission spectra of SA in different organic solvents.



Fig. S2 Absorption spectra of SAs in MeCN.



Fig. S3 Emission spectra of SAs in MeCN.



Fig. S4 X-ray single crystal structure of 4-OMe.



Fig. S5 X-ray single crystal structure of 3-OMe.



Fig. S6 Absorption spectra of 3-Cl at different pH values.



Fig. S7 Emission spectra of SA at different pH values in B-R buffer solution $(1.0 \times 10^{-5} \text{ mol} \text{ dm}^{-3} \text{ and } f = 92 \%)$.



Fig. S8 Emission spectra of 3-F at different pH values in B-R buffer solution $(1.0 \times 10^{-5} \text{ mol} \text{ dm}^{-3} \text{ and } f = 92 \%)$.



Fig. S9 Emission spectra of 4-OMe at different pH values in B-R buffer solution $(1.0 \times 10^{-5} \text{ mol dm}^{-3} \text{ and } f = 92 \%)$.



Fig. S10 Emission spectra of Naph at different pH values in B-R buffer solution $(1.0 \times 10^{-5} \text{ mol dm}^{-3} \text{ and } f = 80 \%)$.



Fig. S11 Colour changes (top: under room light; bottom: under 360 nm UV light) of homemade **3-Cl** test papers after exposing to vapors of HCl and NEt₃, respectively.