Supplemental Information

The Design of Boronic Acid Spectroscopic

Reporter Compounds by Taking Advantage of
the pKa-Lowering Effect of Diol-binding:

Nitrophenol-based Color Reporters for Diols

Weijuan Ni, [≠] Hao Fang, [□] Greg Springsteen, [≠] and Binghe Wang [□]*

[≠]Department of Chemistry, North Carolina State University, Raleigh, NC 27695 and [□] Department of Chemistry, Georgia State University, 33 Gilmer St. S.E., Atlanta, GA 30303 USA

To whom correspondence should be address at

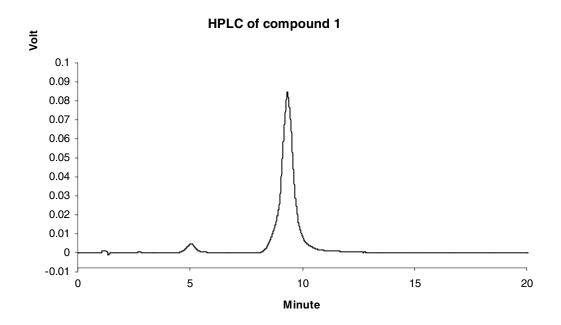
Professor Binghe Wang Department of Chemistry Georgia State University 33 Gilmer St. S.E. Atlanta, GA 30303 Phone: (404) 651-0289 E-mail: wang@gsu.edu

HPLC of compound 1 (4-Nitrophenol-2-boronic acid)

Shimidazul SPD-10AVvp UV detector

Column: ES Industries Chromegabond ODS Test Column 100×4.6mmm 5 micron Mobile Phase: 19/81 Acetonitrile/Water (containing 0.1% trifluoroacetic acid)

Flow Rate: 1.0 ml/min Detection: UV 323 nm



Peak	Retention time (min)	Area (%)
1	5.067	3.8
2	9.342	96.2



...juan/nitro/d6-ph74-021403 Date: Thu Feb 13 09:04:53 2003

OPERATOR: *******



GE NMR OMEGA

...nitro/d6-ph74-diol-021203 Date: Tue Feb 11 21:09:34 2003

OBSERVE:
fi FREQ
SPEC WIDTH =
SPEC OFFSET =
GAIN
FOWER LEVEL =
HIGH FOWER =