**Table S1.** Calibration curve equations for all other amines not plotted in Figure 4 that can be quantified using the Thermo Scientific Dionex IonPac CS-19 (4 x 250 mm) column using the separation method described in the main text. Uncertainties with the least square regression are one standard deviation.

|  |  |
| --- | --- |
| Amine | Calibration Curve Equation |
| Ethanolamine | y = (295.07 ± 5.03)x + (3.89 ± 1.60), R2 = 1.00 |
| Diethanolamine | y = (633.27 ± 15.50)x + (1.87 ± 2.34), R2 = 1.00 |
| Ethylamine | y = (549.07 ± 34.70)x + (2.19 ± 5.38), R2 = 0.99 |
| Allylamine | y = (408.06 ± 14.90)x + (6.74 ± 3.28), R2 = 0.99 |
| Propylamine | y = (416.63 ± 7.78)x + (2.00 ± 1.64), R2 = 1.00 |
| Tert-Butylamine | y = (654.35 ± 27.10)x + (1.78 ± 3.54), R2 = 0.99 |
| Diethylamine | y = (380.37 ± 9.89)x + (2.78 ± 2.24), R2 = 1.00 |
| Sec-Butylamine | y = (349.33 ± 9.77)x + (4.49 ± 2.37), R2 = 1.00 |
| Iso-Butylamine | y = (412.54 ± 8.93)x + (4.95 ± 1.91), R2 = 1.00 |
| Butylamine | y = (392.90 ± 9.73)x + (4.17 ± 2.20), R2 = 1.00 |
| Triethylamine | y = (590.43 ± 28.50)x + (4.68 ± 4.45), R2 = 0.99 |
| Dipropylamine | y = (525.65 ± 28.00)x + (6.91 ± 4.62), R2 = 0.99 |
| Amylamine | y = (548.82 ± 22.90)x + (7.40 ± 3.68), R2 = 0.99 |
| 1,4-Diaminobutane | y = (194.00 ± 7.27)x + (7.34 ± 3.84), R2 = 0.99 |
| 1,5-Diaminopentane | y = (536.39 ± 52.30)x + (19.77 ± 8.17), R2 = 0.96 |