Supplementary material

Figure S1 The IMS-MS instrument

A small sample of experiments, in chronological order, that calculated $K_0$ with respect to the given chemical standard

2,4-lutidine (107 Da)


**4-Nitrobenzonitrile (Molecular Weight 148.1)**


**Anisole and naphthalene (Molecular Weights 108.1 and 128.2, respectively)**


**Dipropylene glycol monomethyl ether (DPGME) (Molecular Weight 148.2)**


**Diocylphthalate (Molecular Weight 390.6)**


**DTBP (Molecular Weight 191.3)**


All the present author’s papers on IMS

**Nicotinamide (Molecular Weight 122.1)**


**Fullerenes (Molecular Weight 720.6 for fullerene)**


**Hexachloroethane (Molecular Weight 236.7)**


**Hydrated proton ion (Ion mass 19)**


**Iodine (Molecular Weight 253.8)**
Methylsalicylate (Molecular Weight 152.1)


Tetraalkylammonium Ions (Molecular Weight 242.5 for Tetrabutylammonium ions)


Trinitrotoluene (Molecular Weight 227.1)


A small sample of experiments that calculated K₀ from instrumental parameters:


A small sample of experiments that measured the drift tube temperature, do not mention which temperature (drift gas or drift tube) they measured, do not even mention the temperature of the experiments, or measured the drift gas temperature before entering the drift tube (alphabetical order)


