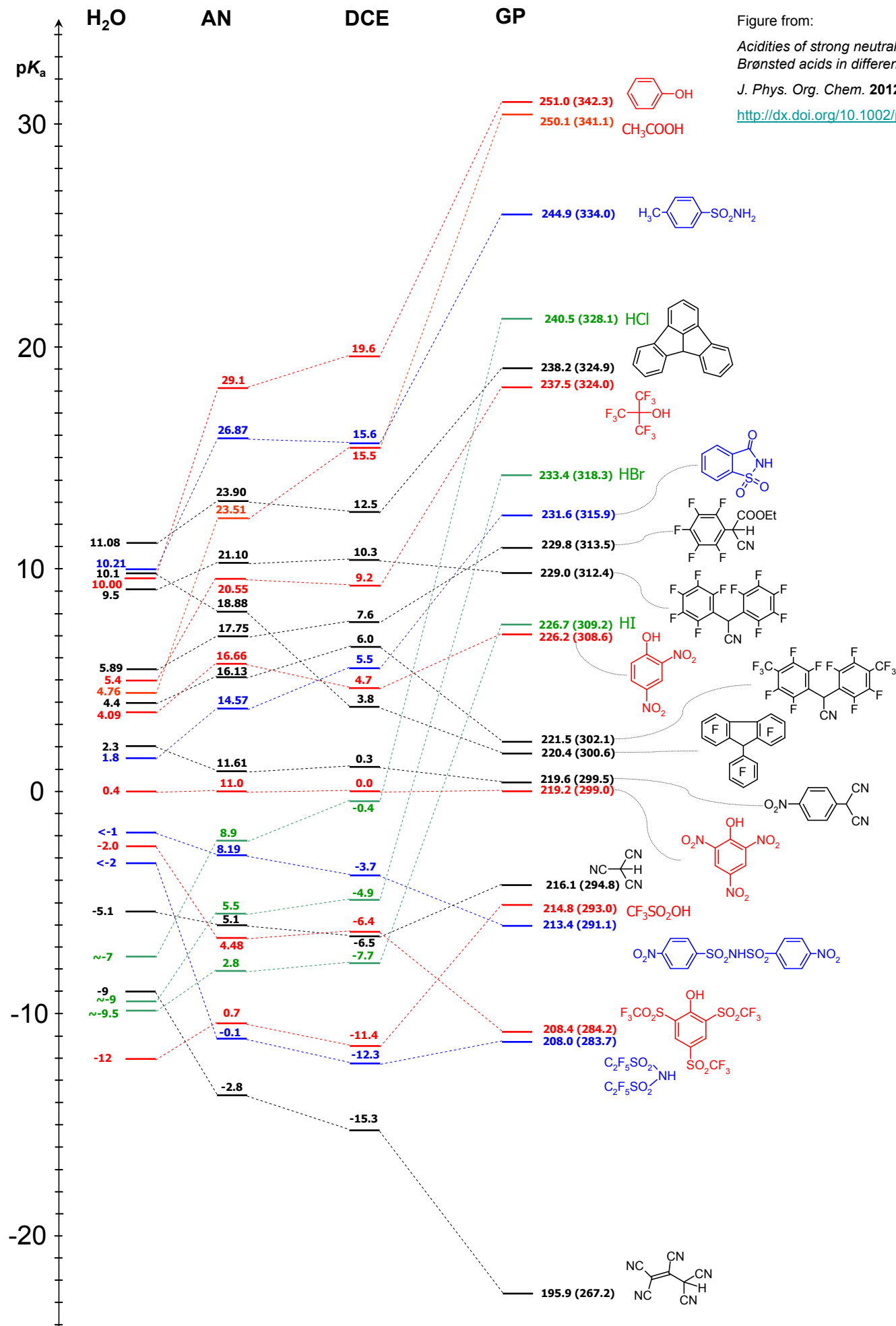

Figure from:

Acidities of strong neutral Brønsted acids in different media

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Figure 1. Trends of acidity changes on transfer between water, acetonitrile, 1,2-dichloroethane and the gas phase of a set of acids of different molecular structure.

The values are presented on a relative scale taking the pK_a value picric acid as zero in all media. The GA values (given in brackets) have been converted to the corresponding pK_a values (see eq 2 in text) in order to make the spans of the values in different media directly comparable. Colors: red – OH acids, blue – NH acids, black – CH acids, green – hydrohalogenic acids.