

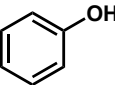



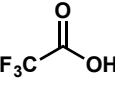
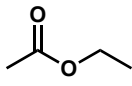

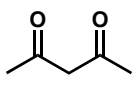
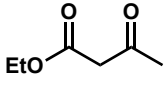
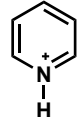

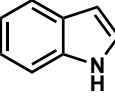
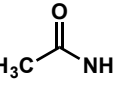



pK_a's in water (or DMSO)

H ₂ O	<i>Thermodynamic = 14</i>	H ₂	<i>35</i>
H ₃ O ⁺	<i>NIL</i>	—	<i>50</i>
HCl	<i>-6</i>	=	<i>44</i>
TfOH	<i>-15</i>	≡	<i>25</i>
HOOH	<i>11.6</i>	≡	<i>25</i>
CH ₃ OH	<i>15.5</i>		<i>43</i>
CH ₃ SH	<i>10.3</i>		<i>41</i>
	<i>10</i>		<i>15</i>
	<i>4.76</i>		<i>19</i>
	<i>-0.25</i>		<i>25</i>
	<i>-2.6</i>		<i>9</i>
NH ₃	<i>38</i>		<i>11</i>
N ⁺ H ₄	<i>9</i>	—	<i>25</i>
Et ₃ N ⁺ H	<i>11</i>	≡N	<i>25</i>
	<i>5.2</i>		<i>10</i>
	<i>16</i>	Ph ₃ ⁺ P—CH ₃	<i>X</i>
	<i>15.1</i>		<i>31</i>