ABBREVIATIONS AND NOTATIONS

activ.  activated
amorph.  amorphous
anhyr.  anhydrous
bl.  blue
blk.  black
bp.  boiling point at 760 mm pressure
brn.  brown
c.  circa (approximately)
cat.  catalyst
c.  colorless
c.  concentrated
cryst.  crystal(line)
d  density of liquid or solid substance relative to water at 4°C
dil.  diluted
dk  dark
e  electron
edta  ethylenediaminetetraacetate ion,
{\ce{C_{10}H_{12}O_4N_2^2-}}
e.g.  exempli grata (for example)
el.  electric(al)
en  edylenediamine, {\ce{C_2H_8N_2}}
ether  diethyl ether
(g)  gaseous (subscript)
gas  gaseous
g/l  gram per litre
grn  green
Hdmg  dimethylglyoximate ion,
{\ce{C_2H_4O_2N_2}}
higher  greater than or equal to (specified temperature value)
hydr.  (cryst) hydrate, hydrated
immisc.  immiscible
impur.  impurity, impurities
insol.  insoluble
k  mass solubility coefficient in g/100 g H_2O
K_a  acidity constant at 25°C,
pK_a = -logK_a
K_b  basicity constant at 25°C,
pK_b = -logK_b
K_c  concentration equilibrium constant,
pK_c = -logK_c
K_int  instability constant of complex in aqueous
solution at 25°C, pK_int = -logK_int
K_prod  ion product constant of solvent
K_st  stability constant of complex in aqueous
solution at 25°C
K_w  ion product constant of water
L  solubility product constant
(l)  liquid (subscript)
lower  less than or equal to (specified
temperature value)
lq  liquid
lt  light
M_r  relative molecular mass (formula weight)
misc.  miscible
mp  melting point
n/react.  does not react
n.tr.  normal temperature and pressure
p  under excess pressure
pH  -log[H_3O^+] value (in aqueous solution)
py  pyridine, {\ce{C_5H_5N}}
react.  reacts (viz., completely hydrolyzes,
oxidizes, or reduces by water)
room t  room temperature, in room conditions
(s)  solid (subscript)
satd  saturated
sk.bl.  sky-blue
sl  solid
sl. sol.  slightly soluble
sol.  readily soluble
soln.  aqueous solution
t  temperature
T Decomp  decomposition temperature
T_d  dehydration temperature
T_dp  depolymerization temperature
T_mp  polymerization temperature
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
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<tbody>
<tr>
<td>( t_{\text{rot}} )</td>
<td>softening temperature</td>
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<tr>
<td>( t_{\text{subl}} )</td>
<td>sublimation temperature</td>
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<td>UV irradn.</td>
<td>ultraviolet irradiation</td>
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<tr>
<td>( v )</td>
<td>volume solubility coefficient in ml(\text{ntp})/100 g (\text{H}_2\text{O})</td>
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<tr>
<td>vac.</td>
<td>vacuum</td>
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<td>v. dild.</td>
<td>very diluted</td>
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<tr>
<td>vitr.</td>
<td>vitreous</td>
</tr>
<tr>
<td>vit.</td>
<td>( \text{videlicet} ) (that is)</td>
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<tr>
<td>wh.</td>
<td>white</td>
</tr>
<tr>
<td>yel.</td>
<td>yellow</td>
</tr>
<tr>
<td>( \alpha )</td>
<td>equilibrium degree of forward reacting</td>
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<tr>
<td>( \rho )</td>
<td>density of gaseous substance in g/l</td>
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<tr>
<td>( \tau )</td>
<td>sluggish reacting</td>
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<tr>
<td>( \phi^0 )</td>
<td>standard electrode potential in aqueous solution (in volt, V)</td>
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<tr>
<td>&gt;</td>
<td>greater than</td>
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<tr>
<td>( \geq )</td>
<td>greater than or equal to</td>
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<tr>
<td>&lt;</td>
<td>less than</td>
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<tr>
<td>( \leq )</td>
<td>less than or equal to</td>
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<tr>
<td>( \ll )</td>
<td>much less than</td>
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