

TABLE 16. Ranges of property values

Quantity	Range of values
$V^*(\text{pentose(cr)})$	$(91.7 \text{ to } 99.4) \times 10^{-6} \text{ m}^3 \text{ mol}^{-1}$
$V^*(\text{hexose(cr)})$	$(108.9 \text{ to } 118.3) \times 10^{-6} \text{ m}^3 \text{ mol}^{-1}$
$V_2^*(\text{pentose(ao)})$	$(93.7 \text{ to } 95.7) \times 10^{-6} \text{ m}^3 \text{ mol}^{-1}$
$V_2^*(\text{hexose(ao)})$	$(110.5 \text{ to } 112.0) \times 10^{-6} \text{ m}^3 \text{ mol}^{-1}$
$\{V_2^*(\text{pentose(ao)}) - V^*(\text{pentose(cr)})\}$	$(-3.5 \text{ to } 1.7) \times 10^{-6} \text{ m}^3 \text{ mol}^{-1}$
$\{V_2^*(\text{hexose(ao)}) - V^*(\text{hexose(cr)})\}$	$(-2.7 \text{ to } 0.8) \times 10^{-6} \text{ m}^3 \text{ mol}^{-1}$
$E^*(\text{hexose(cr)})$	$\approx 0.028 \times 10^{-6} \text{ m}^3 \text{ mol}^{-1} \text{ K}^{-1}$
$E_2^*(\text{hexose(ao)})$	$(0.09 \text{ to } 0.15) \times 10^{-6} \text{ m}^3 \text{ mol}^{-1} \text{ K}^{-1}$
$K_{T,2}^*(\text{pentose(ao)})$	$(-8.4 \text{ to } -15.2) \times 10^{-15} \text{ m}^3 \text{ mol}^{-1} \text{ Pa}^{-1}$
$K_{T,2}^*(\text{hexose(ao)})$	$(-12.7 \text{ to } -16.7) \times 10^{-15} \text{ m}^3 \text{ mol}^{-1} \text{ Pa}^{-1}$
$(\partial K_{T,2}^* / \partial T)_P(\text{hexose(ao)})$	$(0.64 \text{ to } 0.80) \times 10^{-15} \text{ m}^3 \text{ mol}^{-1} \text{ Pa}^{-1} \text{ K}^{-1}$
$C_p^*(\text{pentose(cr)})$	$(184 \text{ to } 186) \text{ J mol}^{-1} \text{ K}^{-1}$
$C_p^*(\text{hexose(cr)})$	$(205 \text{ to } 232) \text{ J mol}^{-1} \text{ K}^{-1}$
$C_{p,2}^*(\text{pentose(ao)})$	$(276 \text{ to } 319) \text{ J mol}^{-1} \text{ K}^{-1}$
$C_{p,2}^*(\text{hexose(ao)})$	$(319 \text{ to } 369) \text{ J mol}^{-1} \text{ K}^{-1}$
$\{C_{p,2}^*(\text{pentose(ao)}) - C_p^*(\text{pentose(cr)})\}$	$(98 \text{ to } 137) \text{ J mol}^{-1} \text{ K}^{-1}$
$\{C_{p,2}^*(\text{hexose(ao)}) - C_p^*(\text{hexose(cr)})\}$	$(90 \text{ to } 101) \text{ J mol}^{-1} \text{ K}^{-1}$
$\{C_{p,2}^*(\text{sugar(ao)}) - C_{p,2}^*(\text{sugar-phosphate(ao)})\}$	$(266 \text{ to } 288) \text{ J mol}^{-1} \text{ K}^{-1}$
$S^*(\text{pentose(cr)})$	$(123 \text{ to } 144) \text{ J mol}^{-1} \text{ K}^{-1}$
$S^*(\text{hexose(cr)})$	$(205 \text{ to } 221) \text{ J mol}^{-1} \text{ K}^{-1}$
$S_2^*(\text{pentose(ao)})$	$(204 \text{ to } 231) \text{ J mol}^{-1} \text{ K}^{-1}$
$S_2^*(\text{hexose(ao)})$	$(255 \text{ to } 280) \text{ J mol}^{-1} \text{ K}^{-1}$
$\{S_2^*(\text{pentose(ao)}) - S^*(\text{pentose(cr)})\}$	$(60 \text{ to } 108) \text{ J mol}^{-1} \text{ K}^{-1}$
$\{S_2^*(\text{hexose(ao)}) - S^*(\text{hexose(cr)})\}$	$(34 \text{ to } 67) \text{ J mol}^{-1} \text{ K}^{-1}$
$\{S_2^*(\text{sugar(ao)}) - S_2^*(\text{sugar-phosphate(ao)})\}$	$(107 \text{ to } 144) \text{ J mol}^{-1} \text{ K}^{-1}$
$\Delta_f H^\circ(\text{pentose(cr)})$	$(-1047 \text{ to } -1058) \text{ kJ mol}^{-1}$
$\Delta_f H^\circ(\text{hexose(cr)})$	$(-1266 \text{ to } -1272) \text{ kJ mol}^{-1}$
$\Delta_f H^\circ(\text{pentose(ao)})$	$(-1023 \text{ to } -1046) \text{ kJ mol}^{-1}$
$\Delta_f H^\circ(\text{hexose(ao)})$	$(-1255 \text{ to } -1263) \text{ kJ mol}^{-1}$
$\{\Delta_f H^\circ(\text{pentose(ao)}) - \Delta_f H^\circ(\text{pentose(cr)})\}$	$(-13 \text{ to } +14) \text{ kJ mol}^{-1}$
$\{\Delta_f H^\circ(\text{hexose(ao)}) - \Delta_f H^\circ(\text{hexose(cr)})\}$	$(4.6 \text{ to } 17.1) \text{ kJ mol}^{-1}$
$\{\Delta_f H^\circ(\text{sugar(ao)}) - \Delta_f H^\circ(\text{sugar-phosphate(ao)})\}$	$(1001 \text{ to } 1015) \text{ kJ mol}^{-1}$
$\Delta_f G^\circ(\text{pentose(cr)})$	$(-730 \text{ to } -745) \text{ kJ mol}^{-1}$
$\Delta_f G^\circ(\text{hexose(cr)})$	$(-902 \text{ to } -909) \text{ kJ mol}^{-1}$
$\Delta_f G^\circ(\text{pentose(ao)})$	$(-739 \text{ to } -751) \text{ kJ mol}^{-1}$
$\Delta_f G^\circ(\text{hexose(ao)})$	$(-909 \text{ to } -916) \text{ kJ mol}^{-1}$
$\{\Delta_f G^\circ(\text{pentose(ao)}) - \Delta_f G^\circ(\text{pentose(cr)})\}$	$(-4.5 \text{ to } -8.7) \text{ kJ mol}^{-1}$
$\{\Delta_f G^\circ(\text{hexose(ao)}) - \Delta_f G^\circ(\text{hexose(cr)})\}$	$(-2.6 \text{ to } -9.9) \text{ kJ mol}^{-1}$
$\Delta_f G^\circ(\text{sugar(ao)}) - \Delta_f G^\circ(\text{sugar-phosphate(ao)})$	$(836 \text{ to } 850) \text{ kJ mol}^{-1}$