D-Fructose

Other names:	D-(-)-fructose
	levulose
Inchi:	InChI=1S/C6H12O6/c7-2-6(11)5(10)4(9)3(8)1-12-6/h3-5,7-11H,1-2H2
InchiKey:	LKDRXBCSQODPBY-UHFFFAOYSA-N
Formula:	C6H12O6
SMILES:	OCC1(O)OCC(O)C(O)C1O
Mol. weight [g/mol]:	180.16
CAS:	6347-01-9

Physical Properties

Property code	Value	Unit	Source
chs	-2809.80	kJ/mol	NIST Webbook
gf	-774.75	kJ/mol	Joback Method
hf	-1051.78	kJ/mol	Joback Method
hfus	28.46	kJ/mol	Joback Method
hvap	115.21	kJ/mol	Joback Method
log10ws	1.42		Crippen Method
logp	-3.220		Crippen Method
mcvol	119.760	ml/mol	McGowan Method
pc	7037.97	kPa	Joback Method
tb	830.31	K	Joback Method
tc	1017.85	K	Joback Method
tf	506.61	K	Joback Method
vc	0.415	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.17	J/mol×K	830.31	Joback Method
cpg	417.53	J/mol×K	861.57	Joback Method
cpg	425.78	J/mol×K	892.82	Joback Method
cpg	434.00	J/mol×K	924.08	Joback Method
cpg	442.23	J/mol×K	955.34	Joback Method
cpg	450.53	J/mol×K	986.59	Joback Method

cpg	458.97	J/mol×K	1017.85	Joback Method
cps	92.31	J/mol×K	150.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	223.60	J/mol×K	293.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	227.70	J/mol×K	298.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	233.30	J/mol×K	303.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	236.90	J/mol×K	308.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	242.40	J/mol×K	313.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	247.30	J/mol×K	318.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	251.50	J/mol×K	323.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides

cps	251.80	J/mol×K	328.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	255.10	J/mol×K	333.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	259.60	J/mol×K	338.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	260.90	J/mol×K	343.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	266.40	J/mol×K	348.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	275.30	J/mol×K	353.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	290.40	J/mol×K	358.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	6.23	J/mol×K	15.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry

cps	9.95	J/mol×K	20.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	13.13	J/mol×K	25.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	15.91	J/mol×K	30.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	18.49	J/mol×K	35.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	20.98	J/mol×K	40.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	23.44	J/mol×K	45.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry

cps	25.91	J/mol×K	50.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	54.01	J/mol×K	100.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	220.30	J/mol×K	288.15	Temperature dependence of the heat capacities in the solid state of 18 mono-, di-, and poly-saccharides
cps	134.39	J/mol×K	200.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	175.41	J/mol×K	250.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	214.57	J/mol×K	300.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry

cps	251.78	J/mol×K	350.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	265.80	J/mol×K	370.00	Apparent heat capacity measurements and thermodynamic functions of d(-)-fructose by standard and temperature-modulated calorimetry
cps	2.81	J/mol×K	14.06	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	3.13	J/mol×K	14.48	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	3.38	J/mol×K	14.92	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	3.63	J/mol×K	15.36	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	3.92	J/mol×K	15.81	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	4.22	J/mol×K	16.27	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	4.66	J/mol×K	16.77	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	5.05	J/mol×K	17.29	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	5.33	J/mol×K	17.75	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	5.75	J/mol×K	18.24	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	6.19	J/mol×K	18.76	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	6.58	J/mol×K	19.31	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	7.07	J/mol×K	19.89	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	7.63	J/mol×K	20.47	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	8.08	J/mol×K	21.03	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	8.51	J/mol×K	21.55	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	9.02	J/mol×K	22.09	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	9.57	J/mol×K	22.64	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	10.10	J/mol×K	23.22	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	10.61	J/mol×K	23.84	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	11.21	J/mol×K	24.41	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	11.67	J/mol×K	24.96	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	12.67	J/mol×K	25.84	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	13.50	J/mol×K	26.71	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	14.07	J/mol×K	27.31	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	14.91	J/mol×K	28.19	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	15.70	J/mol×K	29.03	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	16.16	J/mol×K	29.58	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	16.84	J/mol×K	30.14	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	17.43	J/mol×K	30.73	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	18.05	J/mol×K	31.35	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	18.53	J/mol×K	31.98	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	19.19	J/mol×K	32.62	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	19.89	J/mol×K	33.28	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	20.59	J/mol×K	33.96	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	21.26	J/mol×K	34.65	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	21.95	J/mol×K	35.36	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	22.67	J/mol×K	36.07	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	23.42	J/mol×K	36.78	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	24.11	J/mol×K	37.50	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	24.83	J/mol×K	38.21	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	25.52	J/mol×K	38.91	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	26.21	J/mol×K	39.60	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	26.89	J/mol×K	40.28	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	27.59	J/mol×K	40.99	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	28.30	J/mol×K	41.73	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	29.02	J/mol×K	42.48	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	29.78	J/mol×K	43.26	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	30.54	J/mol×K	44.03	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	31.29	J/mol×K	44.80	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	32.07	J/mol×K	45.60	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	32.85	J/mol×K	46.41	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	33.62	J/mol×K	47.23	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	34.43	J/mol×K	48.05	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	35.18	J/mol×K	48.87	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	35.98	J/mol×K	49.66	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	36.72	J/mol×K	50.46	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	37.50	J/mol×K	51.30	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	38.33	J/mol×K	52.17	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	39.16	J/mol×K	53.08	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	40.03	J/mol×K	54.00	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	40.88	J/mol×K	54.92	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	41.75	J/mol×K	55.87	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	42.65	J/mol×K	56.84	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	43.54	J/mol×K	57.80	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	44.39	J/mol×K	58.75	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	45.25	J/mol×K	59.68	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	46.09	J/mol×K	60.61	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	46.94	J/mol×K	61.55	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	47.76	J/mol×K	62.48	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	48.61	J/mol×K	63.40	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	49.43	J/mol×K	64.31	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	50.22	J/mol×K	65.22	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	51.08	J/mol×K	66.18	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	51.94	J/mol×K	67.16	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	52.90	J/mol×K	68.22	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	53.88	J/mol×K	69.33	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	54.83	J/mol×K	70.43	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	55.79	J/mol×K	71.50	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	56.77	J/mol×K	72.63	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	57.78	J/mol×K	73.81	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	58.80	J/mol×K	74.97	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	59.77	J/mol×K	76.11	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	60.74	J/mol×K	77.23	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	61.72	J/mol×K	78.40	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	62.76	J/mol×K	79.61	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	63.77	J/mol×K	80.81	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	64.80	J/mol×K	81.98	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	65.76	J/mol×K	83.14	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	66.77	J/mol×K	84.34	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	67.84	J/mol×K	85.59	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	68.83	J/mol×K	86.82	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	69.88	J/mol×K	88.03	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	70.89	J/mol×K	89.22	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	71.89	J/mol×K	90.46	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	72.99	J/mol×K	91.74	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	73.99	J/mol×K	93.00	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	75.03	J/mol×K	94.24	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	76.03	J/mol×K	95.47	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	77.10	J/mol×K	96.74	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	78.13	J/mol×K	98.05	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	79.20	J/mol×K	99.34	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	80.23	J/mol×K	100.61	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	81.25	J/mol×K	101.88	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	82.30	J/mol×K	103.17	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	83.38	J/mol×K	104.51	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	84.42	J/mol×K	105.83	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	85.50	J/mol×K	107.14	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	86.51	J/mol×K	108.44	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	87.55	J/mol×K	109.77	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	88.69	J/mol×K	111.13	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	89.72	J/mol×K	112.49	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	90.79	J/mol×K	113.83	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	91.82	J/mol×K	115.15	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	92.94	J/mol×K	116.54	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	94.07	J/mol×K	118.00	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	95.21	J/mol×K	119.43	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	96.29	J/mol×K	120.86	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	97.42	J/mol×K	122.27	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	98.53	J/mol×K	123.72	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	99.73	J/mol×K	125.19	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	100.86	J/mol×K	126.66	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	101.99	J/mol×K	128.15	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	103.12	J/mol×K	129.65	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	104.32	J/mol×K	131.18	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	105.56	J/mol×K	132.78	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	106.79	J/mol×K	134.41	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	107.97	J/mol×K	136.01	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	109.25	J/mol×K	137.61	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	110.50	J/mol×K	139.24	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	111.75	J/mol×K	140.90	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	112.96	J/mol×K	142.55	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	114.21	J/mol×K	144.18	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	115.47	J/mol×K	145.81	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	116.73	J/mol×K	147.46	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	117.96	J/mol×K	149.19	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	119.30	J/mol×K	150.94	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	120.61	J/mol×K	152.67	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	121.92	J/mol×K	154.39	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	123.22	J/mol×K	156.15	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	124.55	J/mol×K	157.94	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	125.90	J/mol×K	159.71	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	127.16	J/mol×K	161.48	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	128.53	J/mol×K	163.23	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	129.85	J/mol×K	165.01	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	131.22	J/mol×K	166.83	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	132.53	J/mol×K	168.63	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	133.87	J/mol×K	170.42	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	135.21	J/mol×K	172.26	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	136.66	J/mol×K	174.19	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	138.12	J/mol×K	176.16	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	139.54	J/mol×K	178.11	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	140.98	J/mol×K	180.05	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	142.44	J/mol×K	181.97	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	143.86	J/mol×K	183.93	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	145.37	J/mol×K	185.92	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	146.78	J/mol×K	187.90	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	148.24	J/mol×K	189.86	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	149.62	J/mol×K	191.82	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	151.13	J/mol×K	193.80	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	152.65	J/mol×K	195.89	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	154.23	J/mol×K	198.03	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	155.79	J/mol×K	200.16	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	157.38	J/mol×K	202.27	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	158.97	J/mol×K	204.41	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	160.59	J/mol×K	206.59	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	162.27	J/mol×K	208.75	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	163.79	J/mol×K	210.91	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	165.43	J/mol×K	213.05	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	166.88	J/mol×K	215.22	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	168.61	J/mol×K	217.41	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	170.28	J/mol×K	219.60	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	172.01	J/mol×K	221.78	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	173.59	J/mol×K	223.94	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	175.10	J/mol×K	226.14	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	176.89	J/mol×K	228.44	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	178.65	J/mol×K	230.80	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	180.52	J/mol×K	233.16	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	182.33	J/mol×K	235.50	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	184.07	J/mol×K	237.87	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	185.87	J/mol×K	240.27	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	187.70	J/mol×K	242.65	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	189.43	J/mol×K	245.03	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	191.32	J/mol×K	247.39	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	193.01	J/mol×K	249.78	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	194.95	J/mol×K	252.20	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	196.74	J/mol×K	254.60	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	198.58	J/mol×K	257.00	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	200.50	J/mol×K	259.38	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	202.31	J/mol×K	261.79	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	204.15	J/mol×K	264.29	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	206.25	J/mol×K	266.82	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	208.09	J/mol×K	269.35	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	210.03	J/mol×K	271.87	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	211.71	J/mol×K	274.41	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	213.84	J/mol×K	276.98	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	215.75	J/mol×K	279.54	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	217.72	J/mol×K	282.08	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	219.77	J/mol×K	284.61	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

cps	221.78	J/mol×K	287.17	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	223.86	J/mol×K	289.76	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	225.93	J/mol×K	292.33	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	227.98	J/mol×K	294.92	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	230.08	J/mol×K	297.52	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	232.18	J/mol×K	300.15	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	234.38	J/mol×K	302.81	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	236.46	J/mol×K	305.45	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	238.40	J/mol×K	308.08	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	240.73	J/mol×K	310.70	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	242.98	J/mol×K	313.34	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	244.99	J/mol×K	316.00	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	247.19	J/mol×K	318.66	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	249.35	J/mol×K	321.30	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	
cps	251.32	J/mol×K	323.93	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose	

cps	253.53	J/mol×K	326.58	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose
cps	255.90	J/mol×K	329.26	Heat capacity and standard thermodynamic functions of three ketohexoses in monosaccharides including rare sugars: D-fructose, D-psicose, and D-tagatose

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Legend

chs: Standard solid enthalpy of combustion

cpg: Ideal gas heat capacity

cps: Solid phase heat capacity

gf: Standard Gibbs free energy of formation

hf: Enthalpy of formation at standard conditions

hfus: Enthalpy of fusion at standard conditions

hvap: Enthalpy of vaporization at standard conditions

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume