

Summary

December 6, 2023

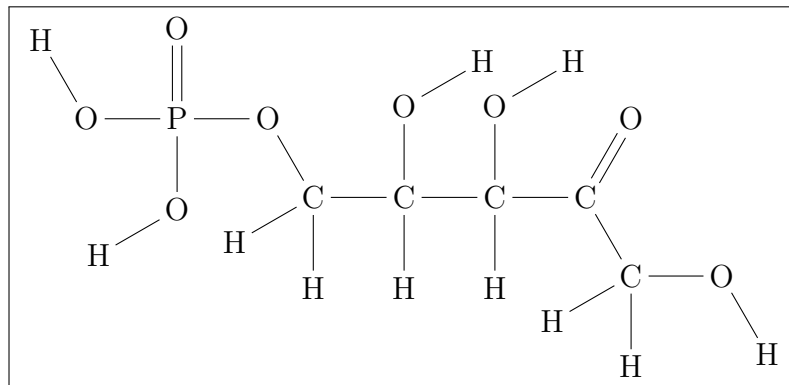
Contents

0.1	Loaded Graphs	3
0.1.1	Ribulose-5-Phosphate	3
0.1.2	H2O	3
0.1.3	Fructose-6-Phosphate	3
0.2	Loaded Rules	4
0.2.1	Aldose-Ketose <-	4
0.2.2	Aldose-Ketose ->	5
0.2.3	Transketolase	5
0.2.4	Transaldolase	6
0.2.5	Aldolase	7
0.2.6	Phosphohydrolase	7
0.2.7	DG Hyper, dg_0	8
0.3	Product Graphs	8
0.3.1	Ribulose-5-Phosphate	8
0.3.2	H2O	8
0.3.3	p_{0,0}	9
0.3.4	p_{0,1}	9
0.3.5	p_{0,2}	10
0.3.6	p_{0,3}	10
0.3.7	p_{0,4}	11
0.3.8	p_{0,5}	11
0.3.9	p_{0,6}	12
0.3.10	p_{0,7}	12
0.3.11	p_{0,8}	13
0.3.12	p_{0,9}	13
0.3.13	p_{0,10}	14
0.3.14	p_{0,11}	14
0.3.15	p_{0,12}	15
0.3.16	p_{0,13}	15
0.3.17	p_{0,14}	16
0.3.18	p_{0,15}	16
0.3.19	p_{0,16}	17
0.3.20	p_{0,17}	17
0.3.21	p_{0,18}	18
0.3.22	p_{0,19}	18
0.3.23	p_{0,20}	19
0.3.24	Fructose-6-Phosphate	20
0.3.25	p_{0,21}	20
0.3.26	p_{0,22}	21
0.3.27	p_{0,23}	21
0.3.28	p_{0,24}	22

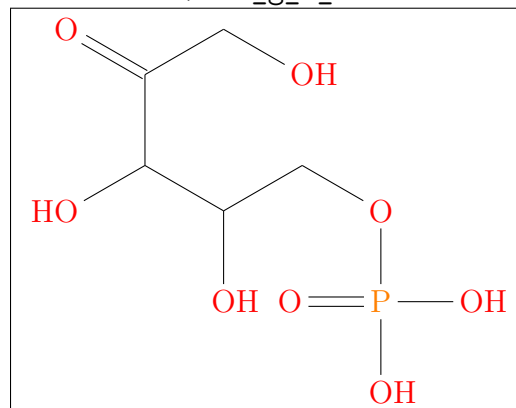
0.3.29	$p_{\{0,25\}}$	23
0.3.30	$p_{\{0,26\}}$	23
0.3.31	$p_{\{0,27\}}$	24
0.3.32	$p_{\{0,28\}}$	25
0.3.33	$p_{\{0,29\}}$	26
0.3.34	$p_{\{0,30\}}$	26
0.3.35	$p_{\{0,31\}}$	27
0.3.36	$p_{\{0,32\}}$	27
0.3.37	$p_{\{0,33\}}$	28
0.3.38	$p_{\{0,34\}}$	28
0.3.39	$p_{\{0,35\}}$	29
0.3.40	$p_{\{0,36\}}$	30
0.3.41	$p_{\{0,37\}}$	30
0.3.42	$p_{\{0,38\}}$	31
0.3.43	$p_{\{0,39\}}$	32
0.3.44	$p_{\{0,40\}}$	32
0.3.45	$p_{\{0,41\}}$	33
0.3.46	$p_{\{0,42\}}$	34
0.3.47	$p_{\{0,43\}}$	34
0.3.48	$p_{\{0,44\}}$	35
0.3.49	$p_{\{0,45\}}$	36
0.3.50	$p_{\{0,46\}}$	36
0.3.51	$p_{\{0,47\}}$	37
0.3.52	$p_{\{0,48\}}$	38
0.3.53	$p_{\{0,49\}}$	38
0.3.54	$p_{\{0,50\}}$	39
0.3.55	$p_{\{0,51\}}$	40
0.3.56	$p_{\{0,52\}}$	40
0.3.57	$p_{\{0,53\}}$	41
0.3.58	$p_{\{0,54\}}$	41
0.3.59	$p_{\{0,55\}}$	42
0.4	Flow Solutions, id 0	42
0.4.1	Solution 0	42

0.1 Loaded Graphs

0.1.1 Ribulose-5-Phosphate

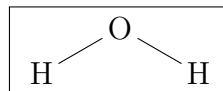


File: out/002_g_0_10300000



File: out/004_g_0_11310100

0.1.2 H2O

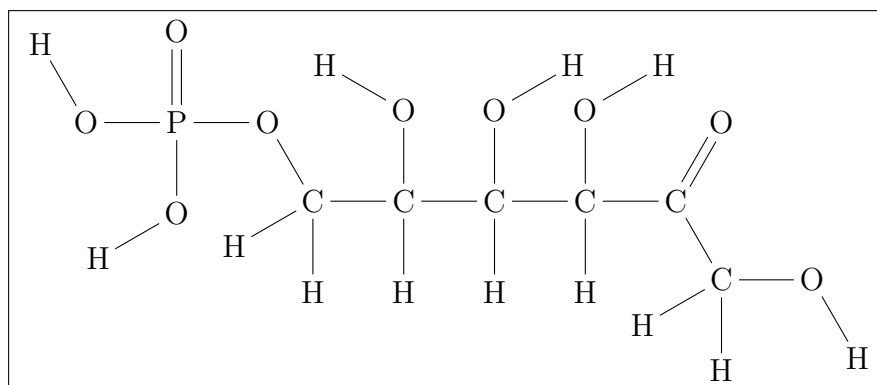


File: out/006_g_1_10300000

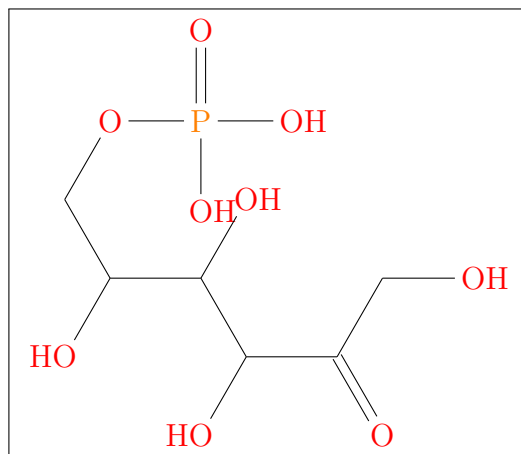


File: out/008_g_1_11310100

0.1.3 Fructose-6-Phosphate



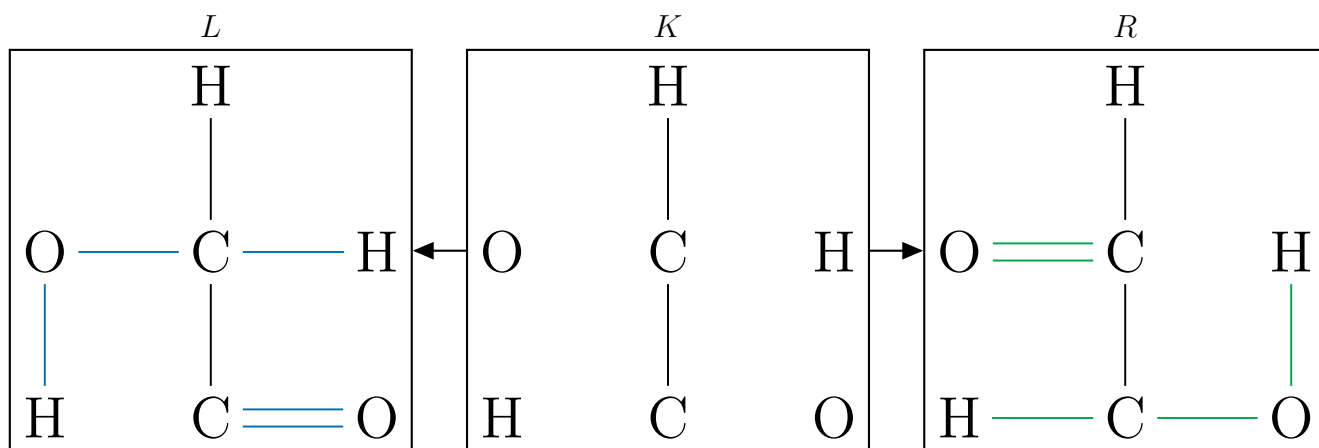
File: out/010_g_2_10300000



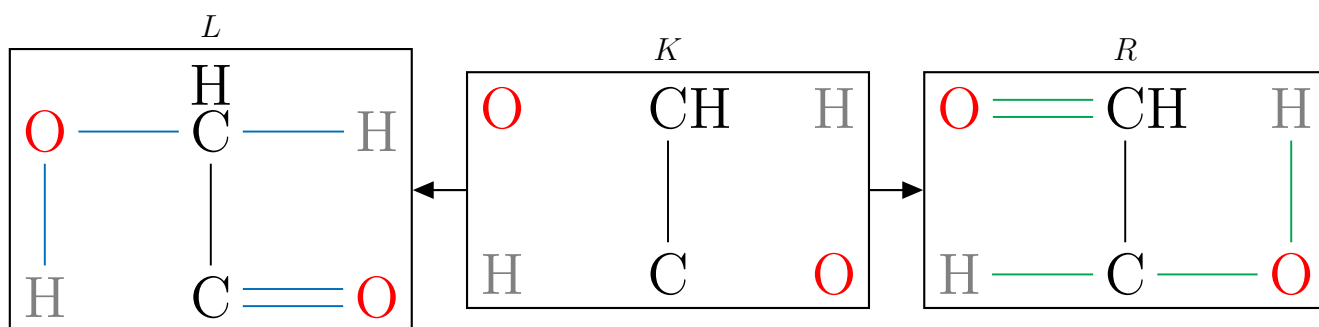
File: out/012_g_2_11310100

0.2 Loaded Rules

0.2.1 Aldose-Ketose <-



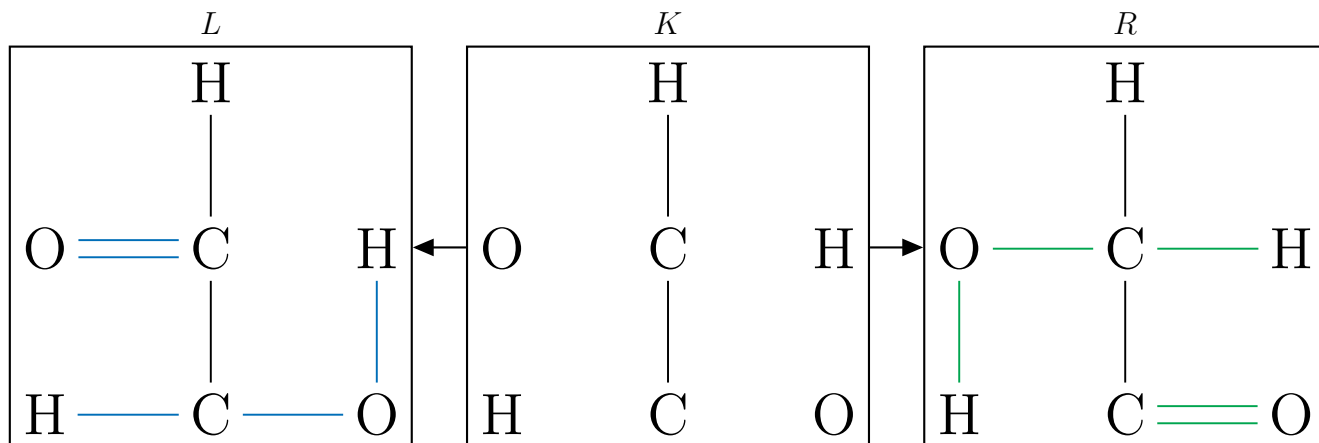
Files: out/014_r_0_10300000_{L, K, R}



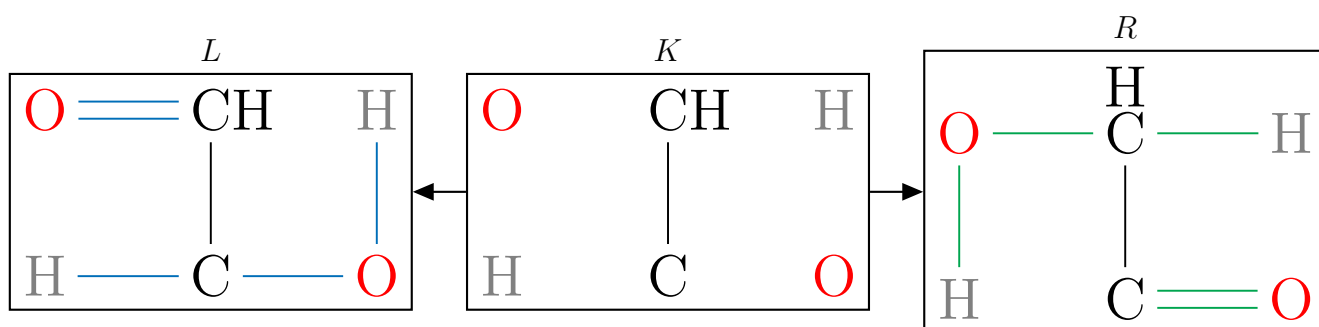
Files: out/016_r_0_11300100_{L, K, R}

$$|\{e \in \text{outEdges}(1) \mid \text{label}(\text{target}(e)) \in \{'0'\}\}| = 1$$

0.2.2 Aldose-Ketose ->



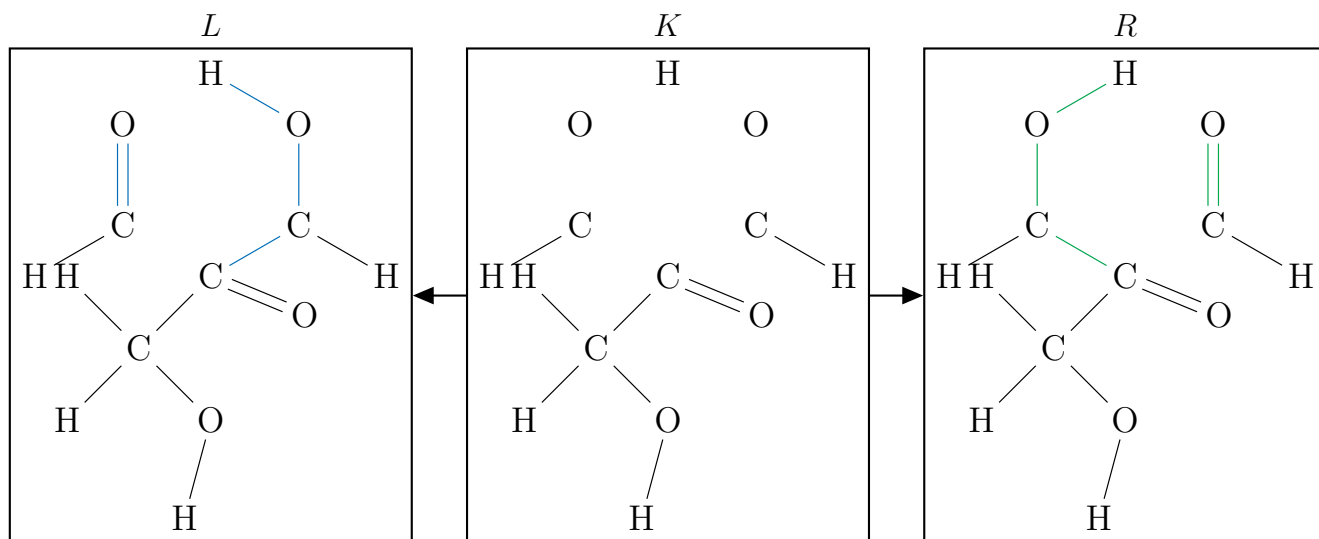
Files: out/019_r_1_10300000_{L, K, R}



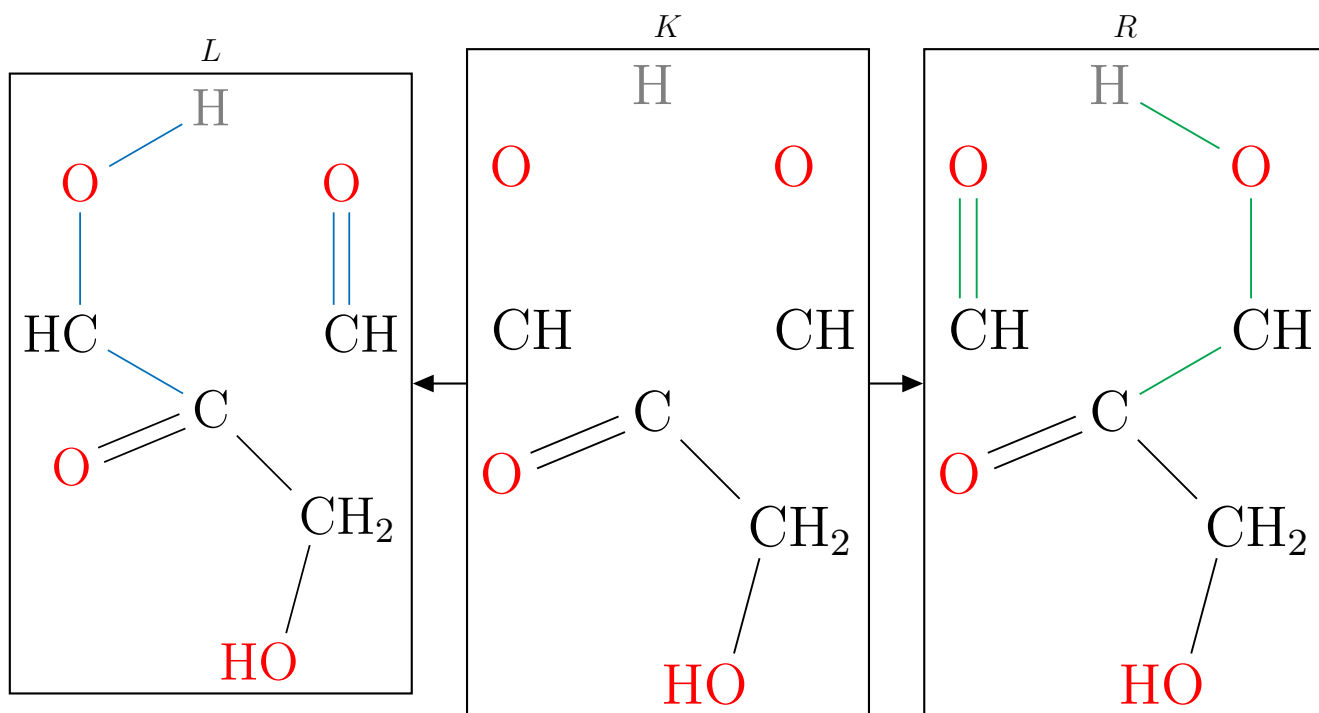
Files: out/021_r_1_11300100_{L, K, R}

$$|\{e \in \text{outEdges}(1) \mid \text{label}(\text{target}(e)) \in \{\text{'O'}\}\}| = 1$$

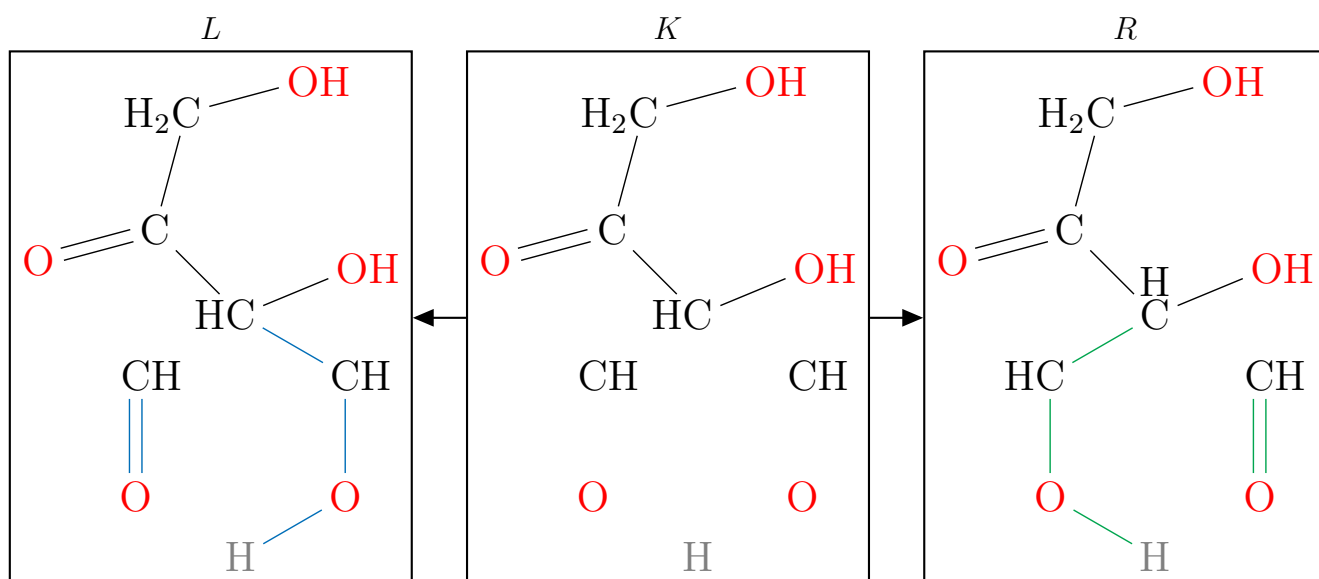
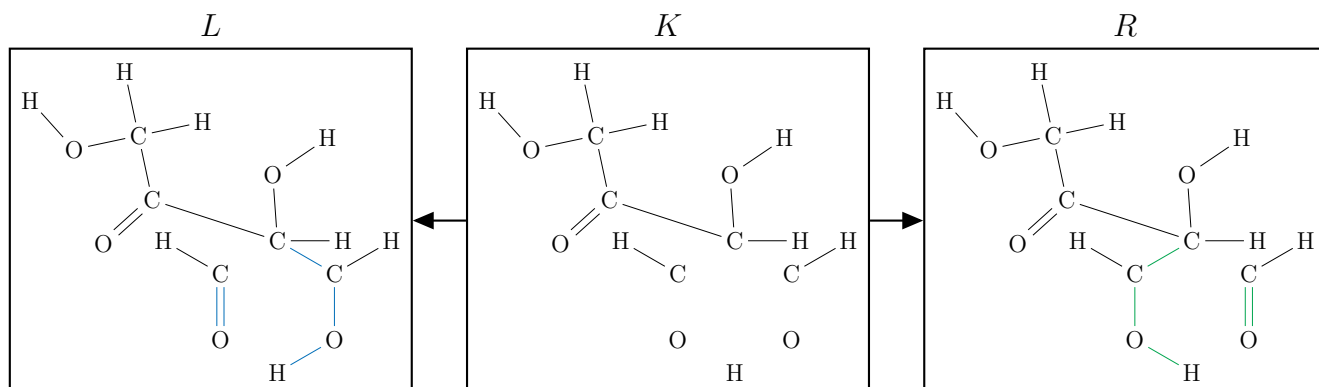
0.2.3 Transketolase



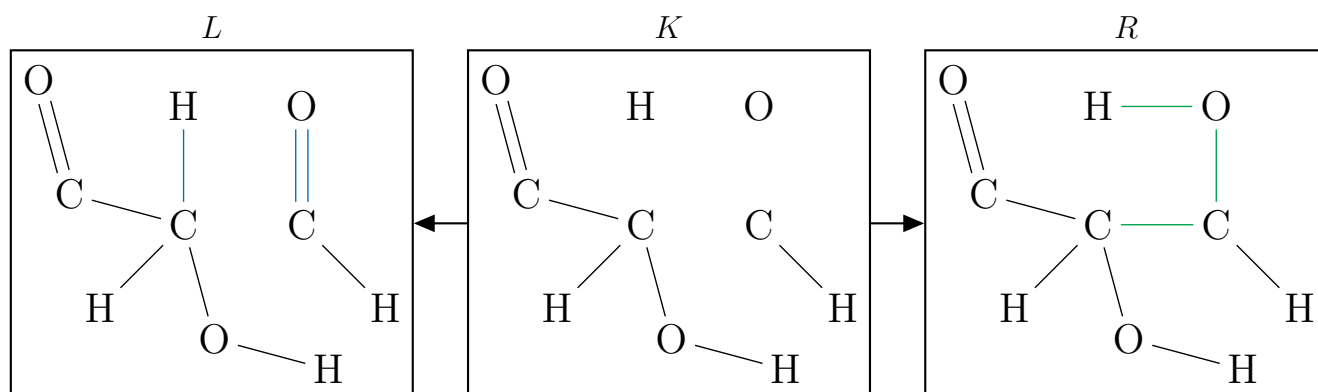
Files: out/024_r_2_10300000_{L, K, R}



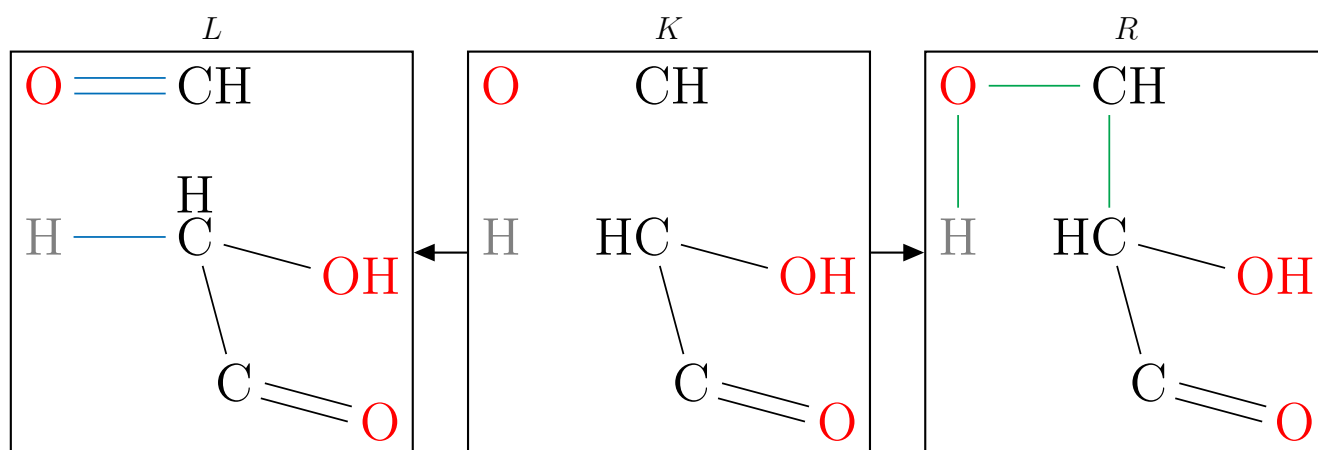
0.2.4 Transaldolase



0.2.5 Aldolase

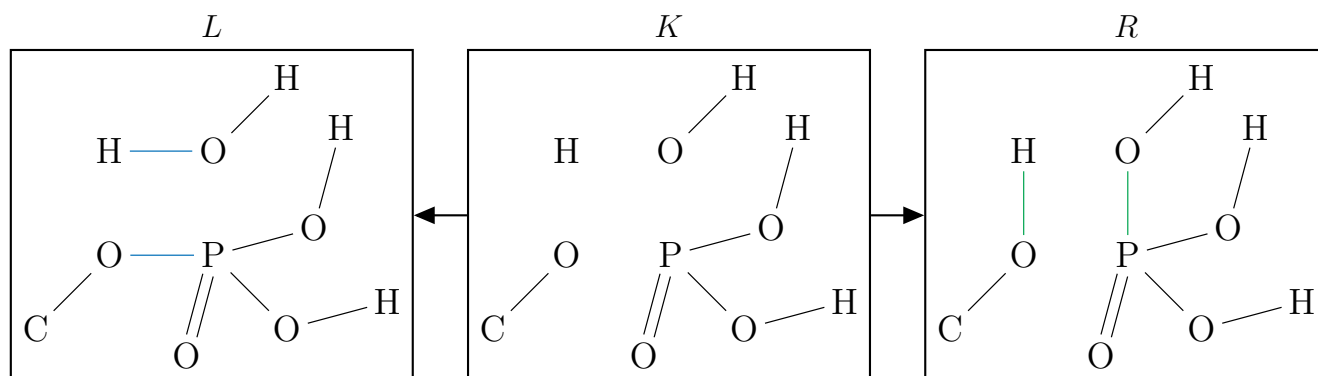


Files: out/034_r_4_10300000_{L, K, R}

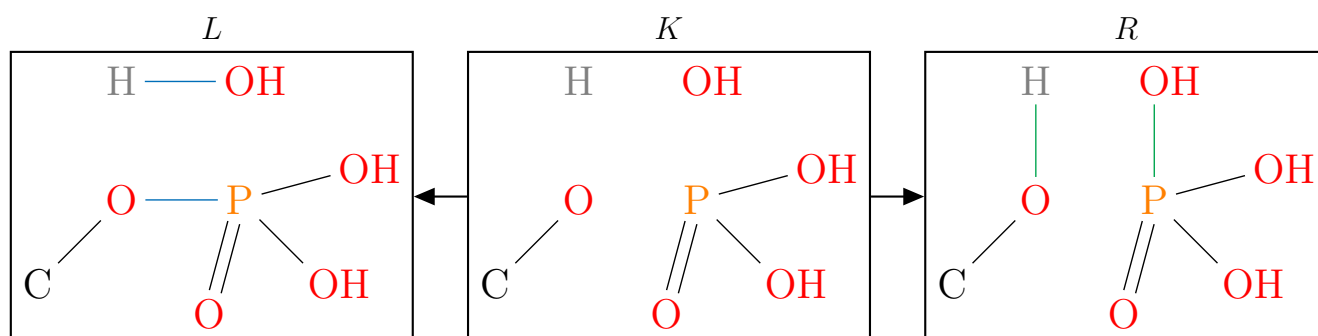


Files: out/036_r_4_11300100_{L, K, R}

0.2.6 Phosphohydrolase



Files: out/039_r_5_10300000_{L, K, R}



Files: out/041_r_5_11300100_{L, K, R}

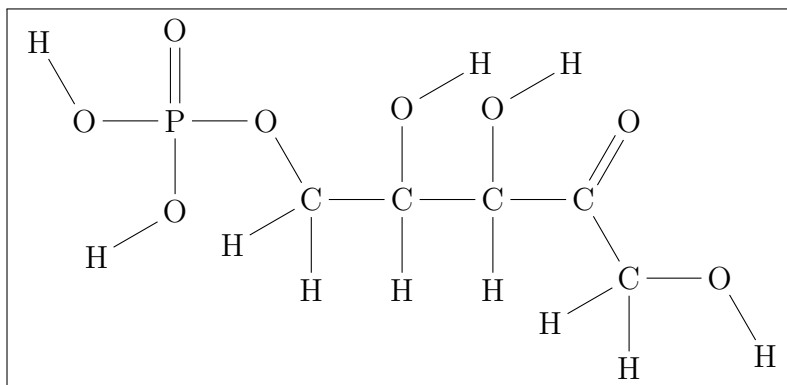
0.2.7 DG Hyper, dg_0

Figure too large, see out/043_dg_0_11100_coord.pdf

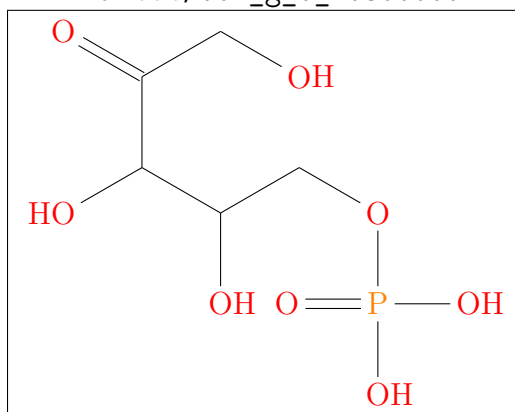
File: out/159_dg_0_11100

0.3 Product Graphs

0.3.1 Ribulose-5-Phosphate

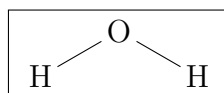


File: out/002_g_0_10300000

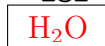


File: out/004_g_0_11310100

0.3.2 H2O

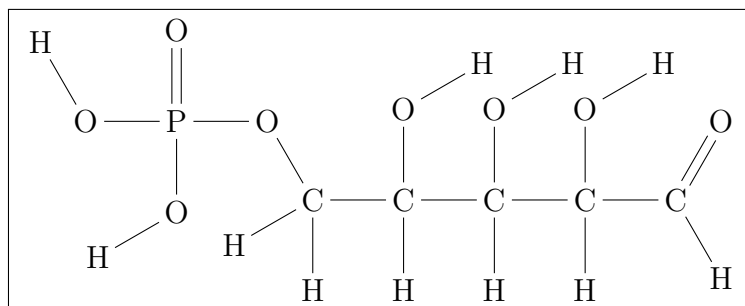


File: out/006_g_1_10300000

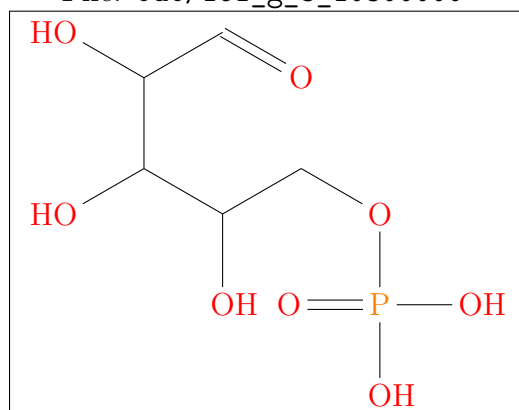


File: out/008_g_1_11310100

0.3.3 p_{0,0}

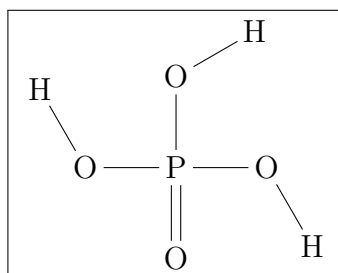


File: out/161_g_3_10300000

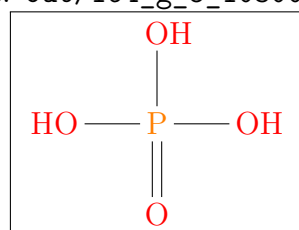


File: out/162_g_3_11310100

0.3.4 p_{0,1}

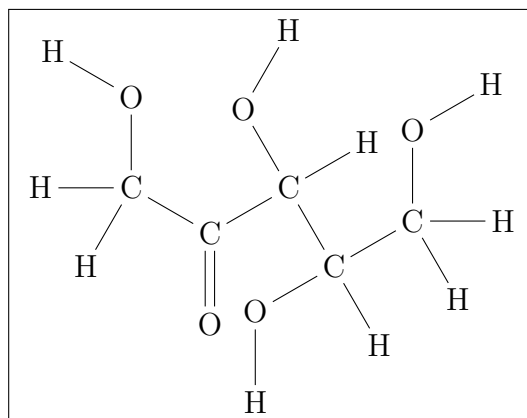


File: out/164_g_5_10300000

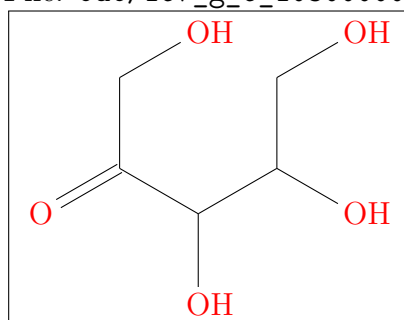


File: out/165_g_5_11310100

0.3.5 p_{0,2}

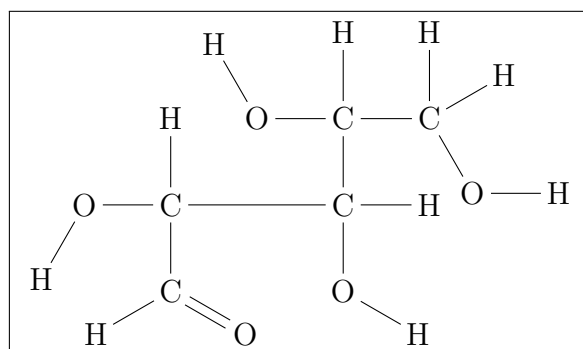


File: out/167_g_6_10300000

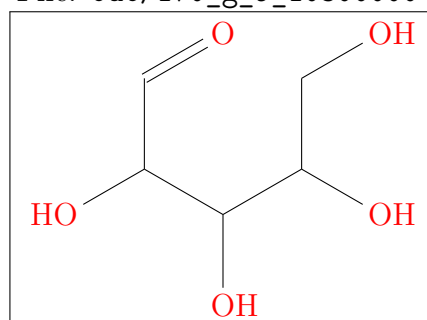


File: out/168_g_6_11310100

0.3.6 p_{0,3}

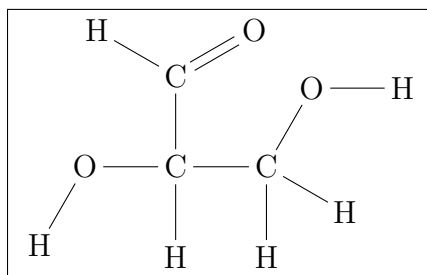


File: out/170_g_9_10300000

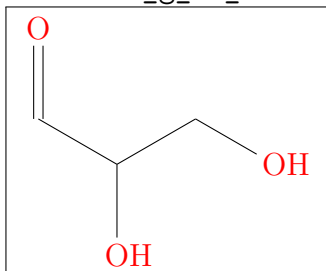


File: out/171_g_9_11310100

0.3.7 p_{0,4}

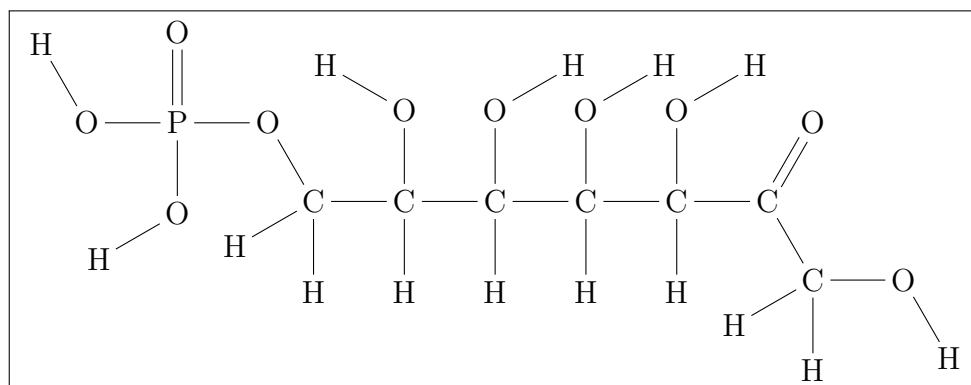


File: out/173_g_12_10300000

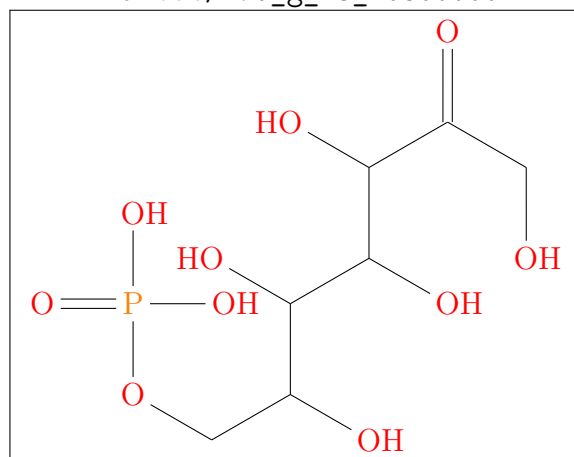


File: out/174_g_12_11310100

0.3.8 p_{0,5}

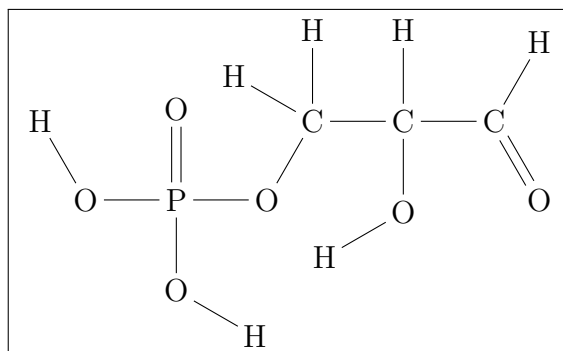


File: out/176_g_13_10300000

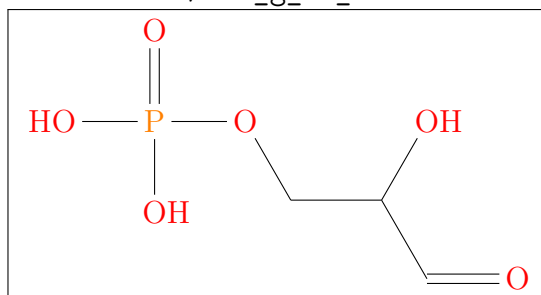


File: out/177_g_13_11310100

0.3.9 p_{0,6}

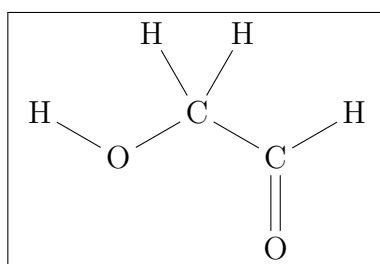


File: out/179_g_17_10300000

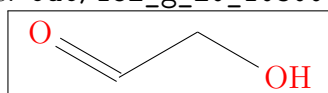


File: out/180_g_17_11310100

0.3.10 p_{0,7}

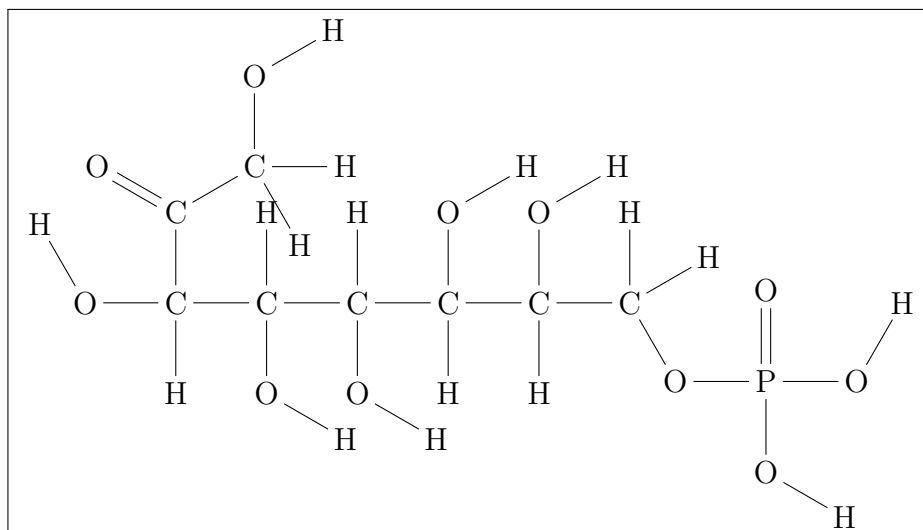


File: out/182_g_20_10300000

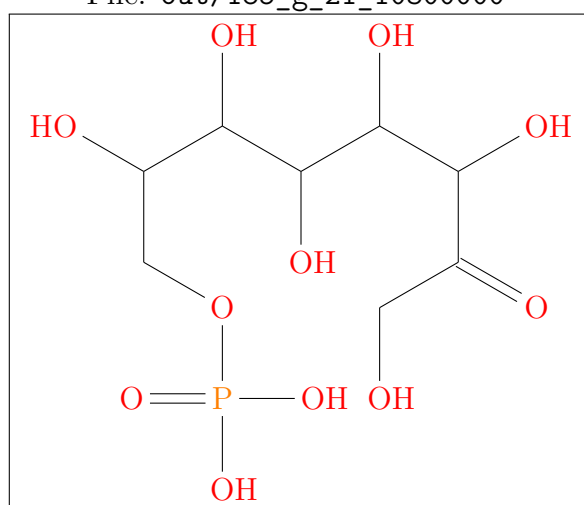


File: out/183_g_20_11310100

0.3.11 p_{0,8}

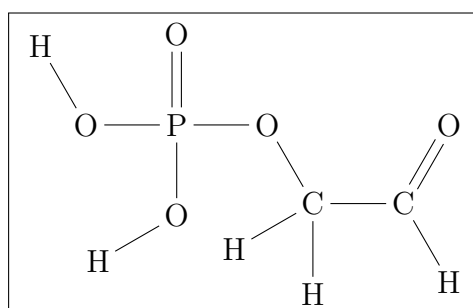


File: out/185_g_21_10300000

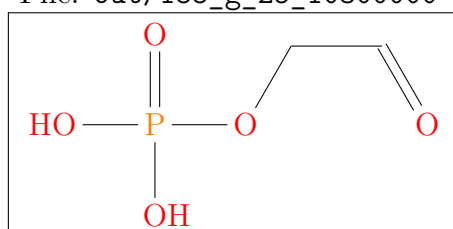


File: out/186_g_21_11310100

0.3.12 p_{0,9}

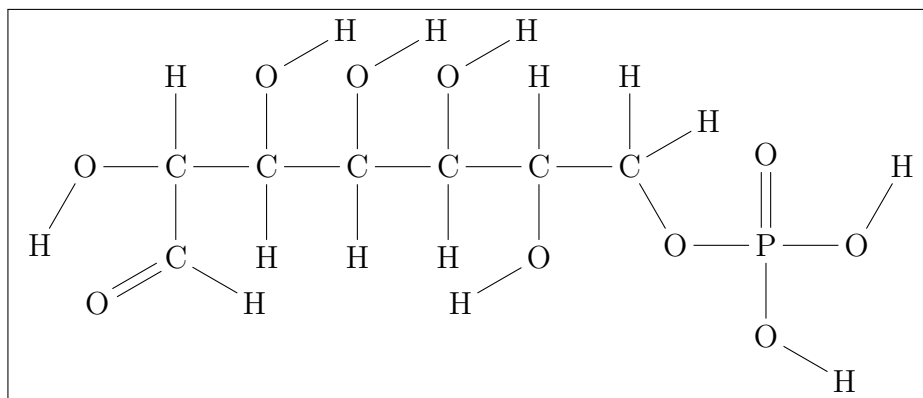


File: out/188_g_25_10300000

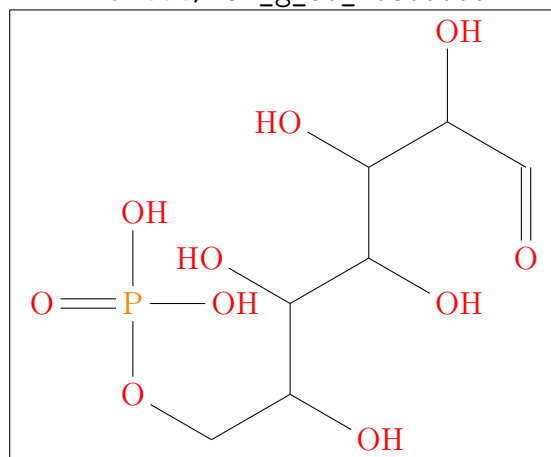


File: out/189_g_25_11310100

0.3.13 p_{0,10}

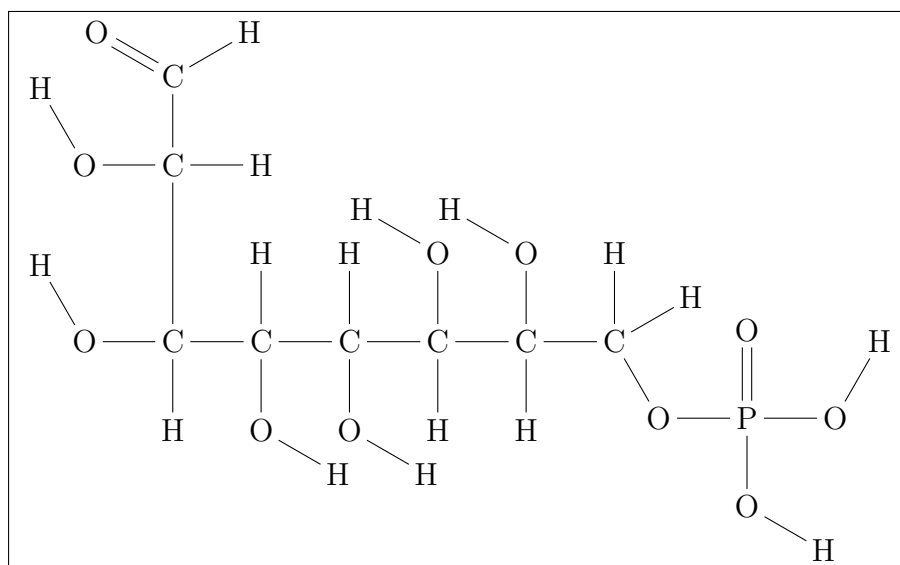


File: out/191_g_36_10300000

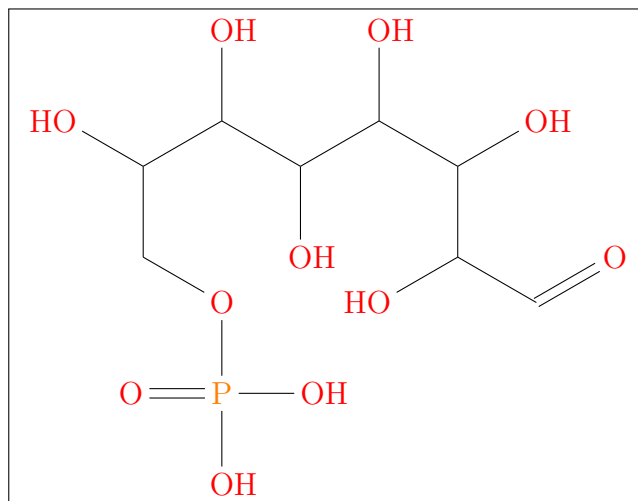


File: out/192_g_36_11310100

0.3.14 p_{0,11}

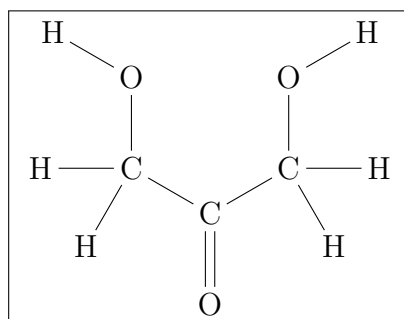


File: out/194_g_40_10300000

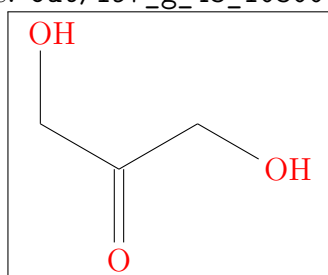


File: out/195_g_40_11310100

0.3.15 $p_{\{0,12\}}$

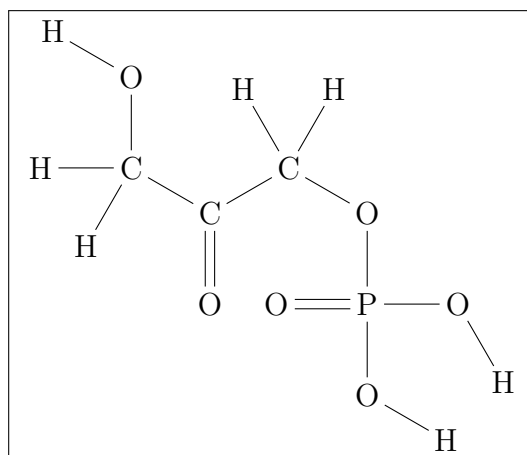


File: out/197_g_43_10300000

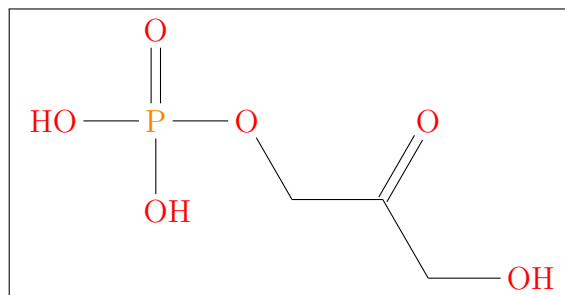


File: out/198_g_43_11310100

0.3.16 $p_{\{0,13\}}$

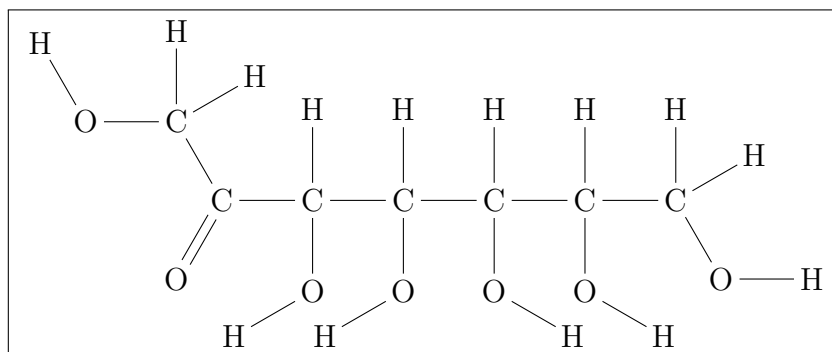


File: out/200_g_44_10300000

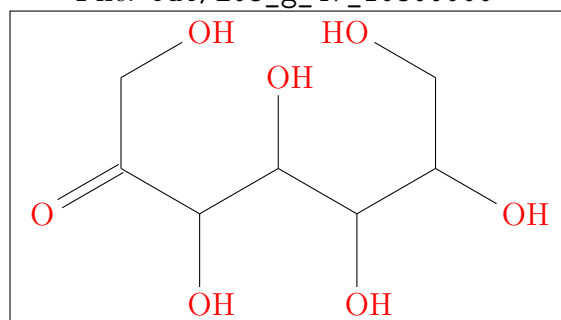


File: out/201_g_44_11310100

0.3.17 p_{0,14}

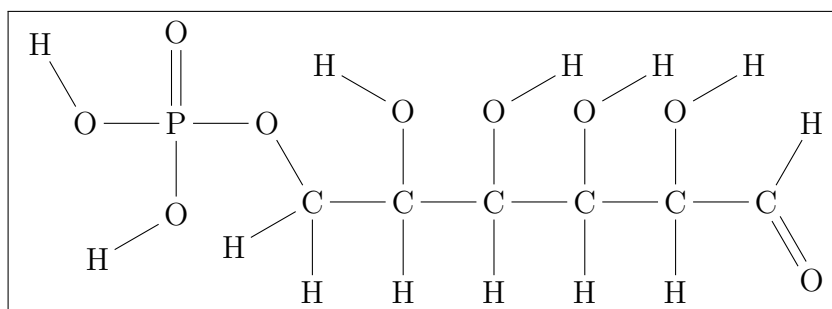


File: out/203_g_47_10300000

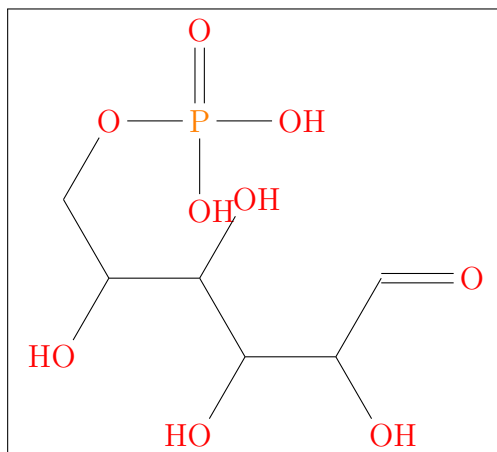


File: out/204_g_47_11310100

0.3.18 p_{0,15}

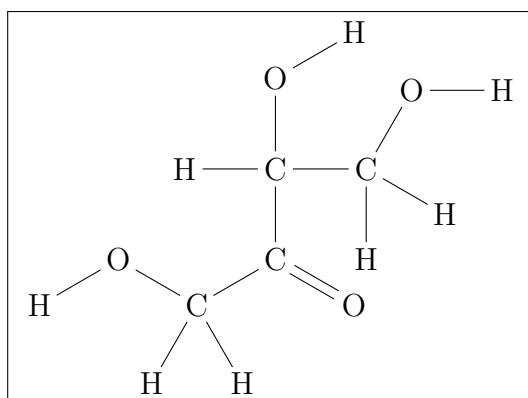


File: out/206_g_52_10300000

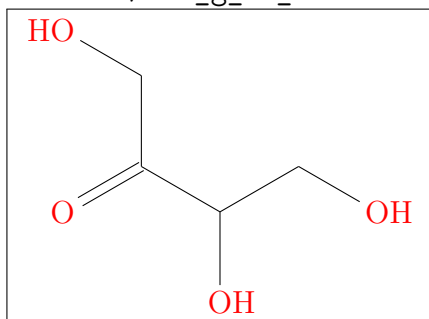


File: out/207_g_52_11310100

0.3.19 p_{0,16}

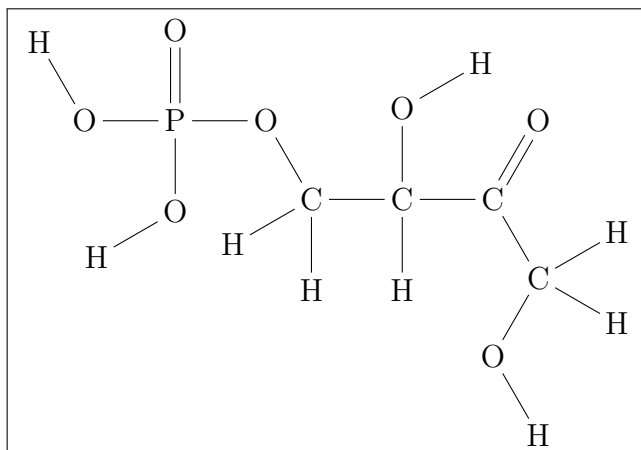


File: out/209_g_81_10300000

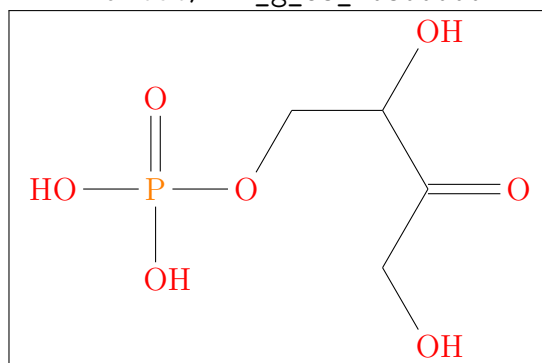


File: out/210_g_81_11310100

0.3.20 p_{0,17}

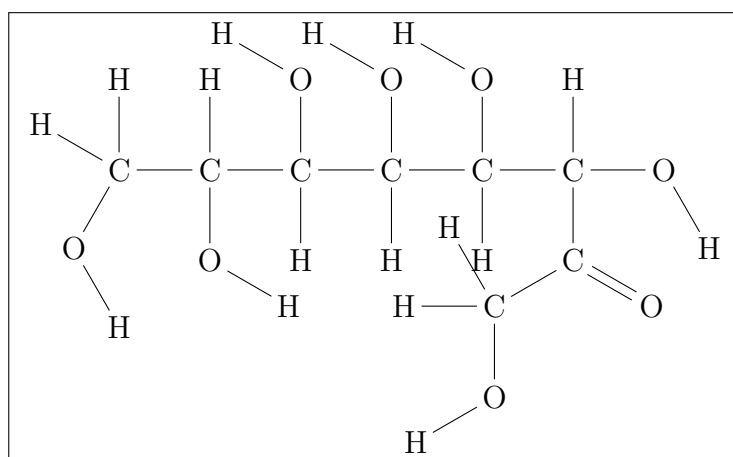


File: out/212_g_83_10300000

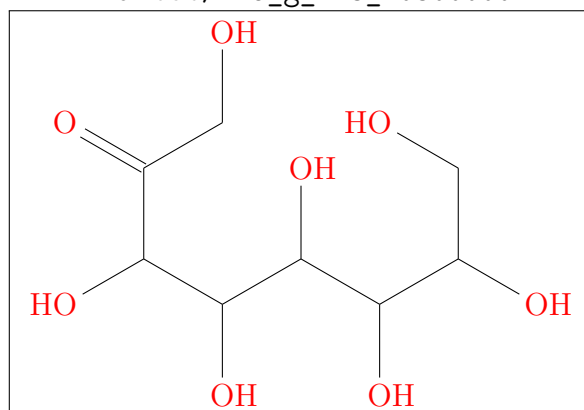


File: out/213_g_83_11310100

0.3.21 p_{0,18}

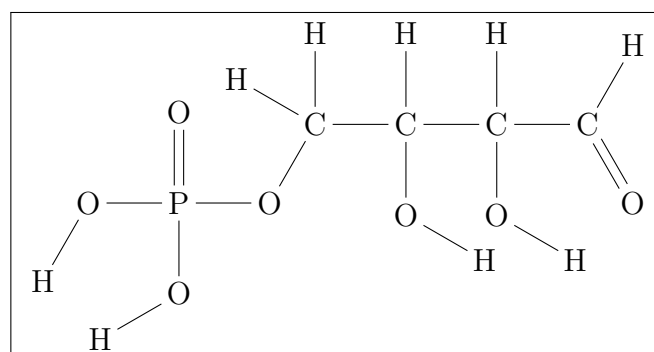


File: out/215_g_123_10300000

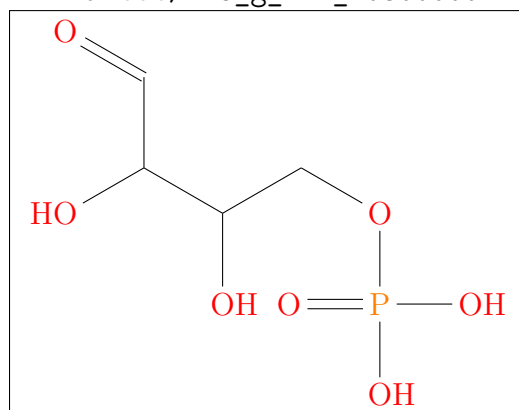


File: out/216_g_123_11310100

0.3.22 p_{0,19}

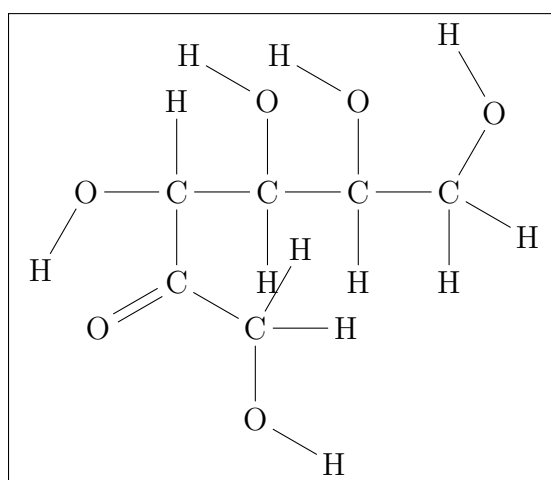


File: out/218_g_124_10300000

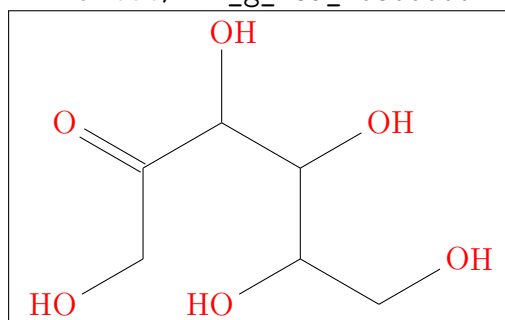


File: out/219_g_124_11310100

0.3.23 p_{0,20}

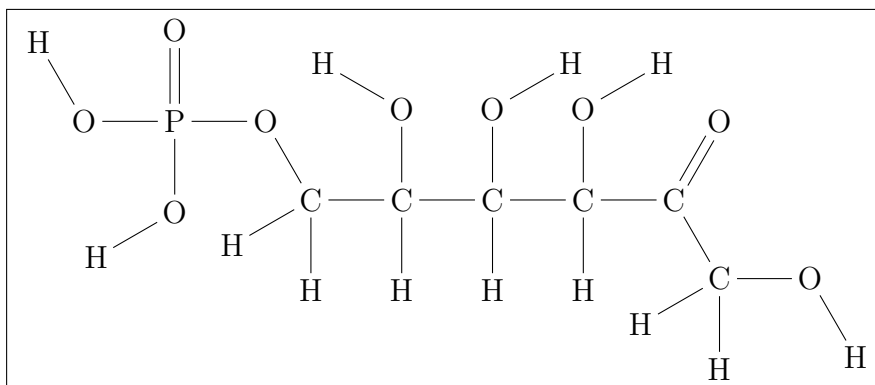


File: out/221_g_139_10300000

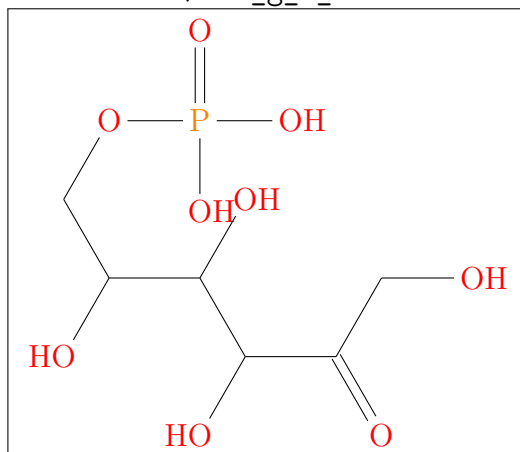


File: out/222_g_139_11310100

0.3.24 Fructose-6-Phosphate

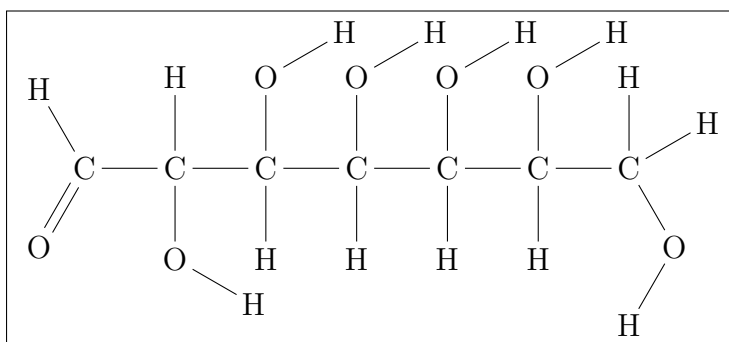


File: out/010_g_2_10300000

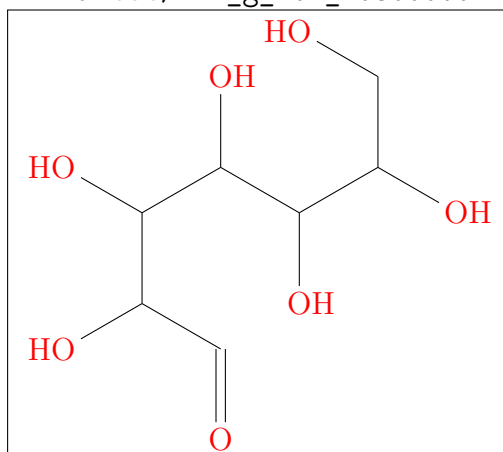


File: out/012_g_2_11310100

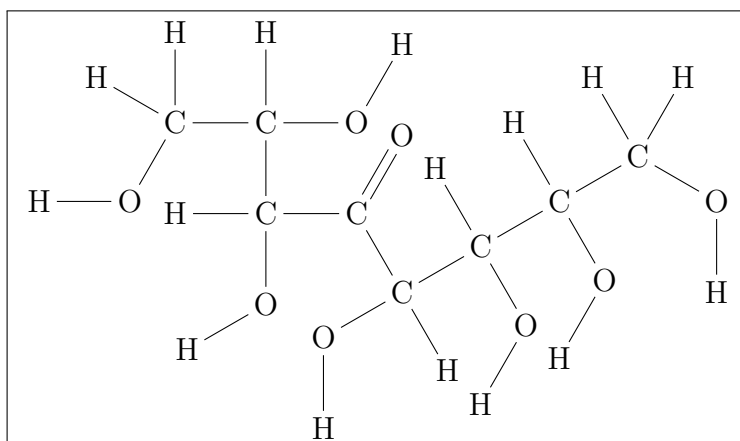
0.3.25 p_{0,21}



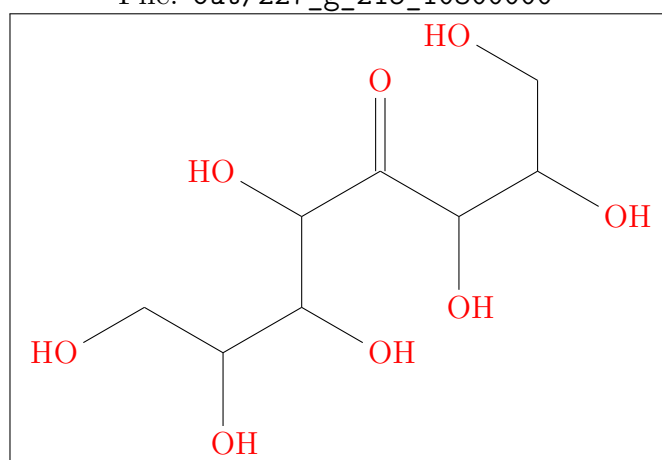
File: out/224_g_201_10300000



0.3.26 p_{0,22}

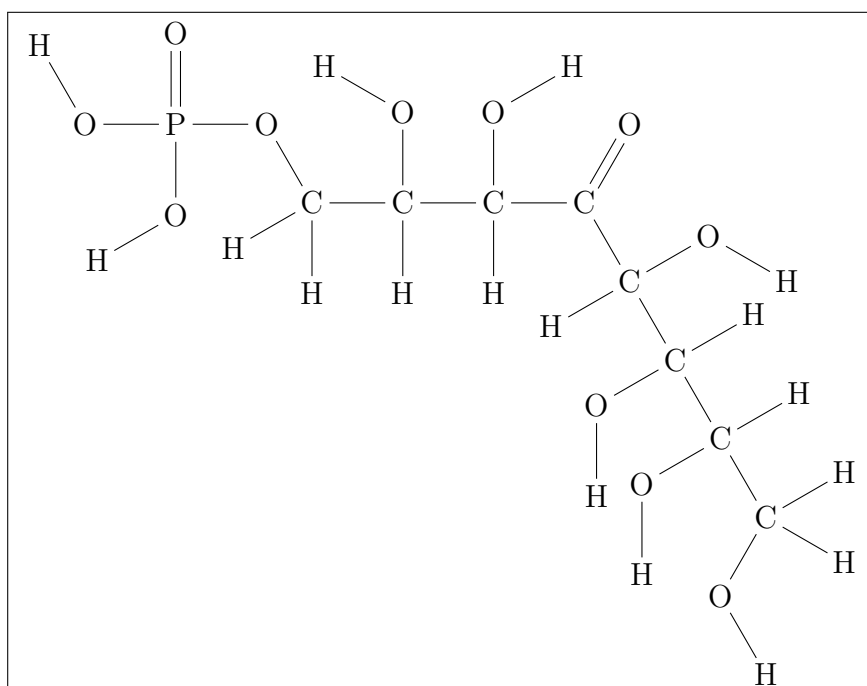


File: out/227_g_215_10300000

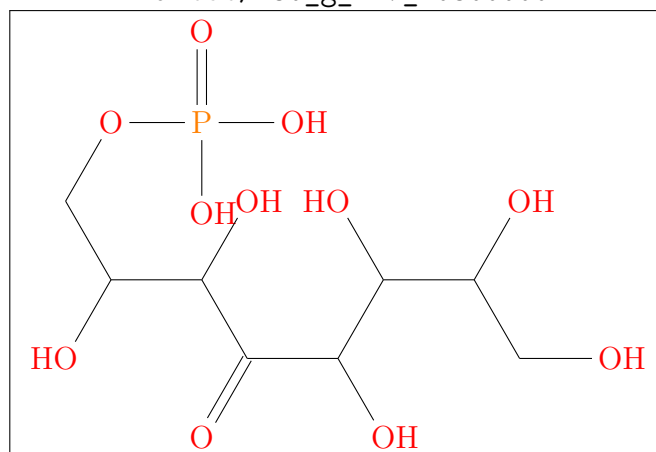


File: out/228_g_215_11310100

0.3.27 p_{0,23}

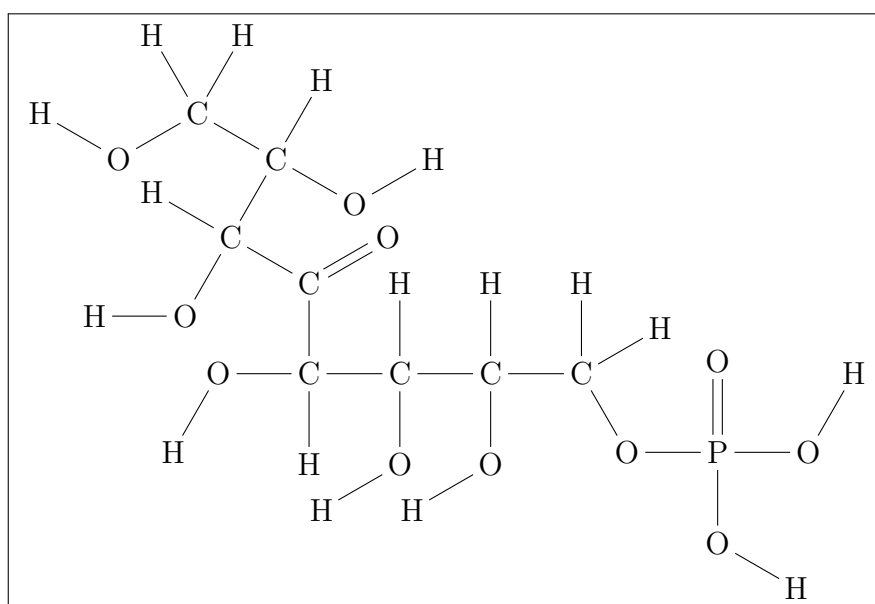


File: out/230_g_217_10300000

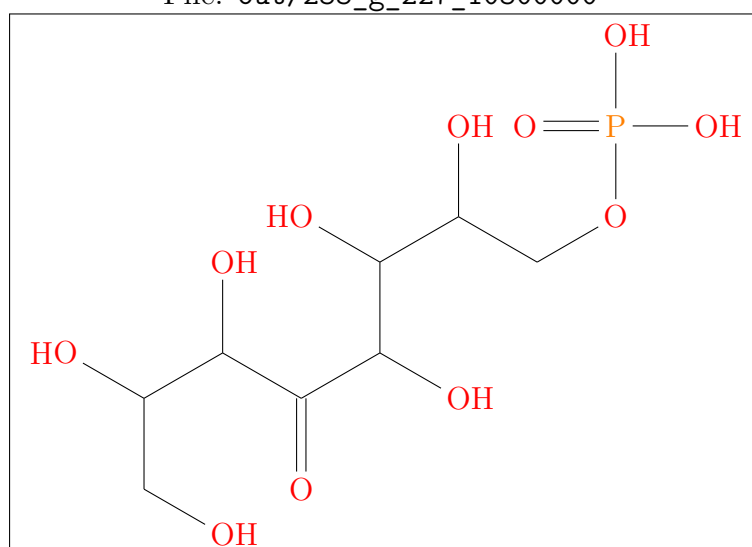


File: out/231_g_217_11310100

0.3.28 p_{0,24}

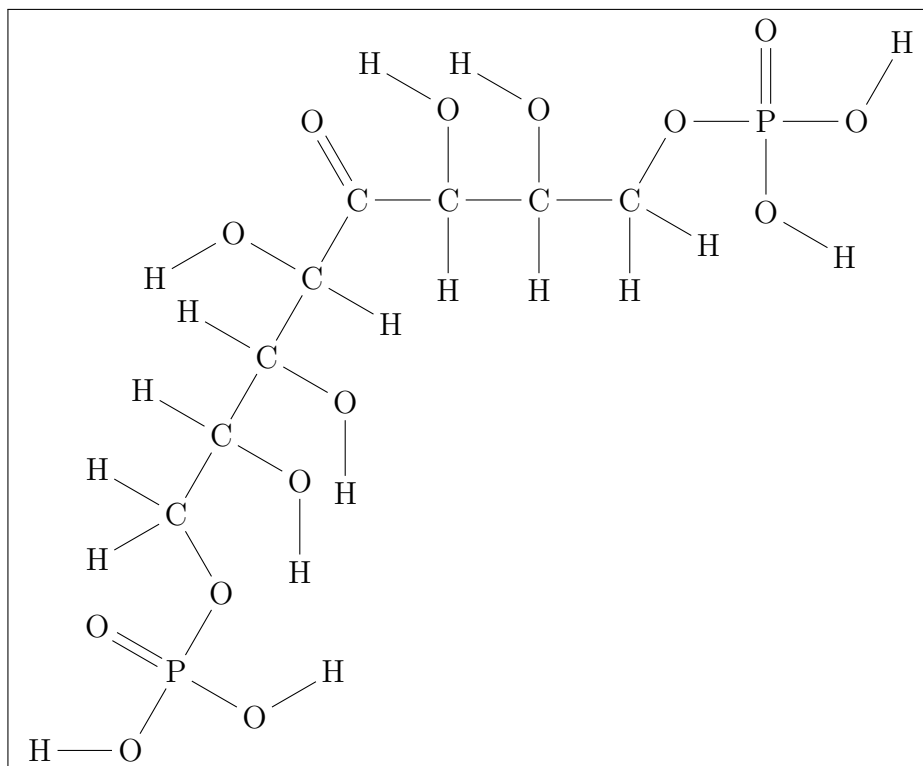


File: out/233_g_227_10300000

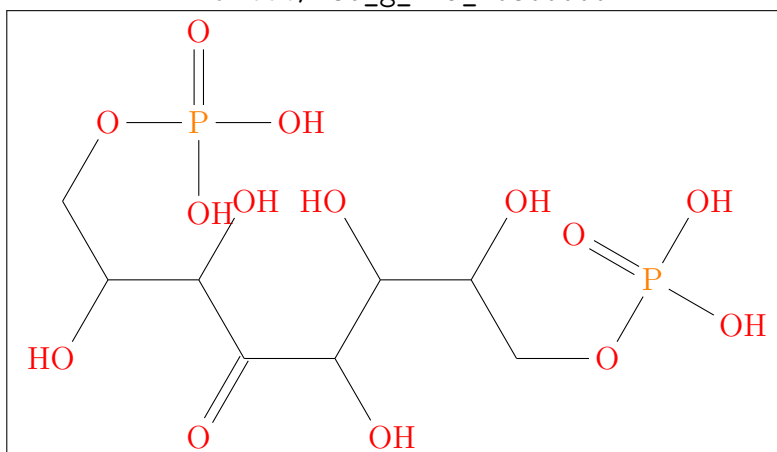


File: out/234_g_227_11310100

0.3.29 p_{0,25}

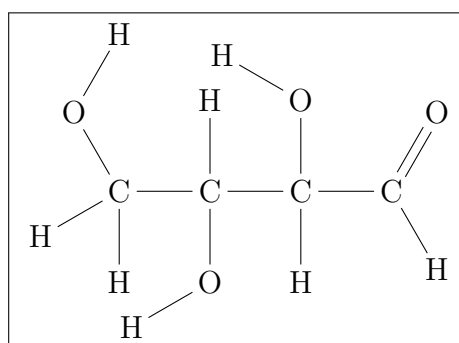


File: out/236_g_229_10300000

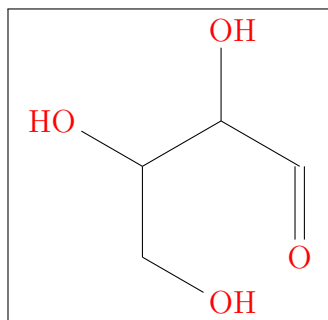


File: out/237_g_229_11310100

0.3.30 p_{0,26}

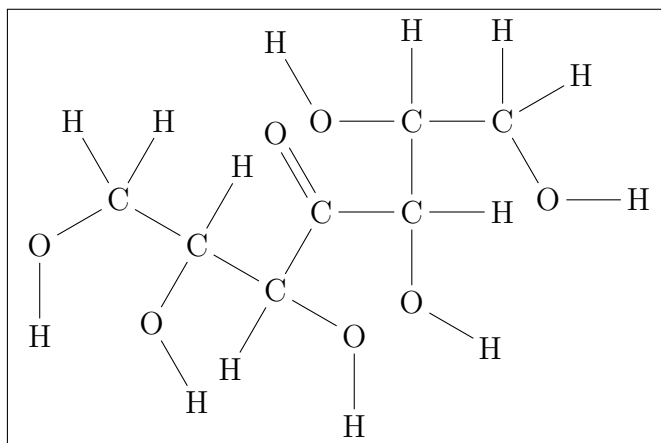


File: out/239_g_231_10300000

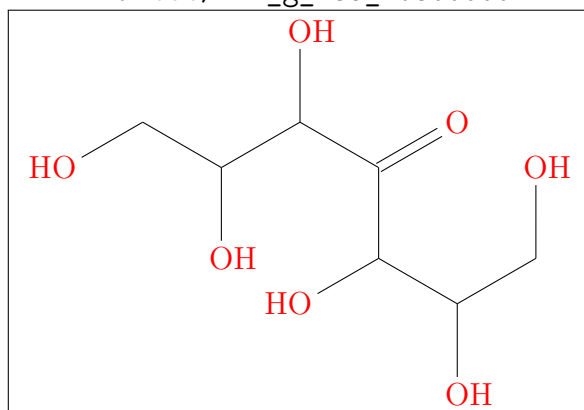


File: out/240_g_231_11310100

0.3.31 $p_{\{0,27\}}$

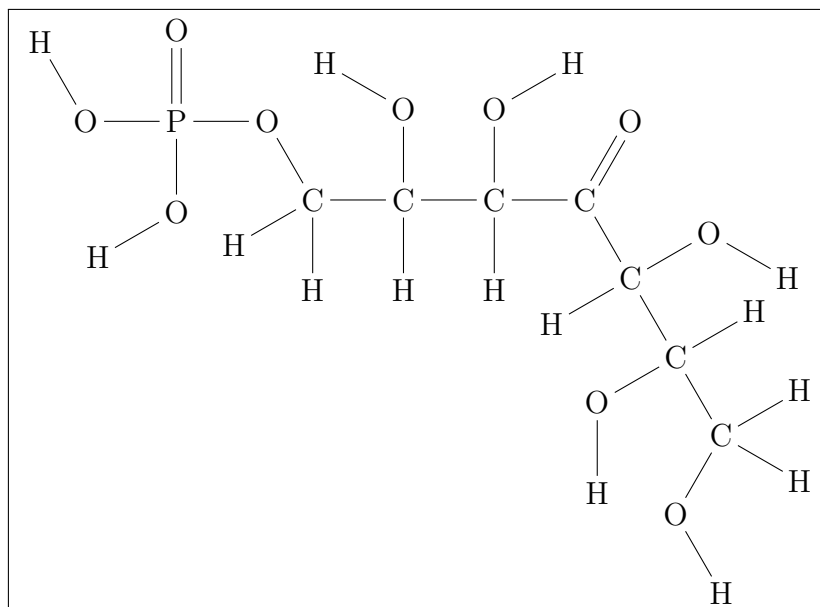


File: out/242_g_235_10300000

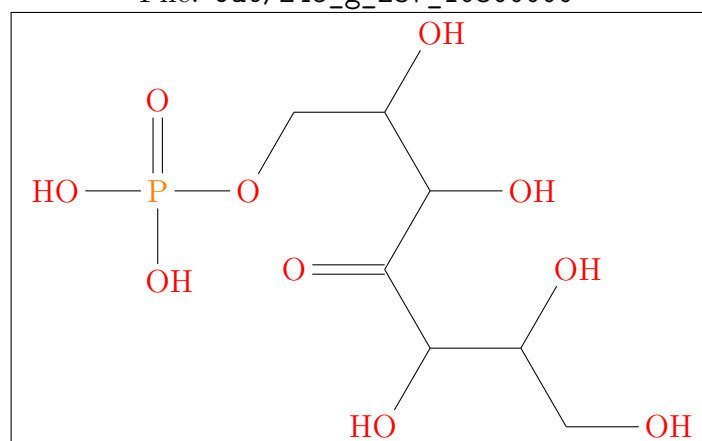


File: out/243_g_235_11310100

0.3.32 p_{0,28}

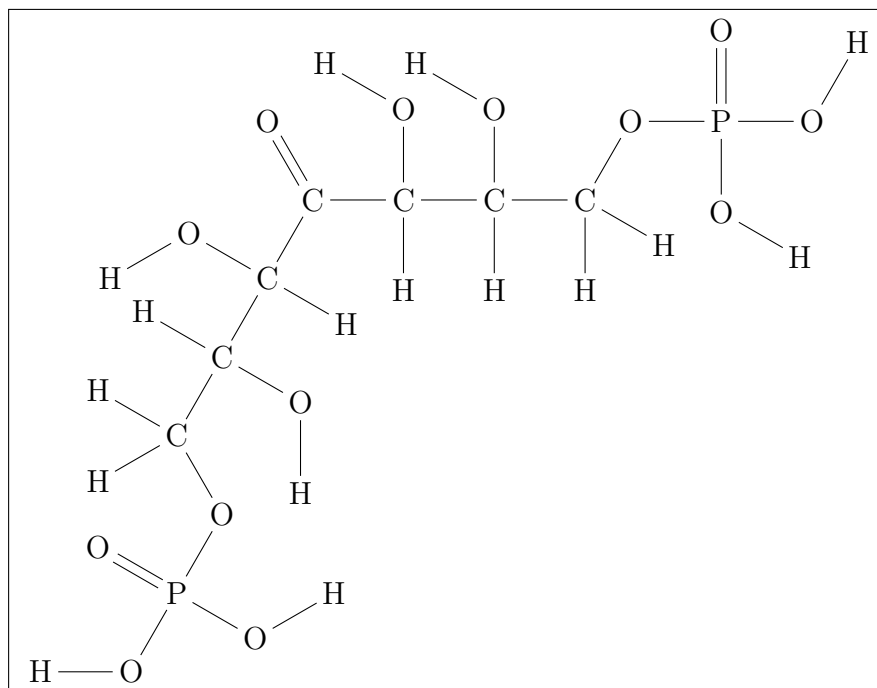


File: out/245_g_237_10300000

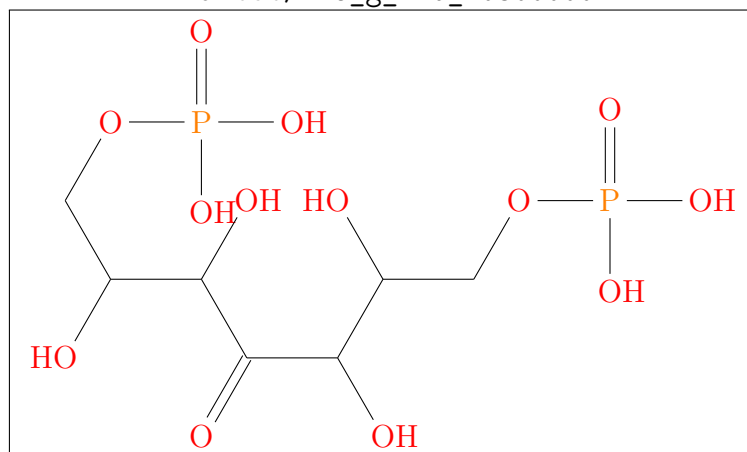


File: out/246_g_237_11310100

0.3.33 p_{0,29}

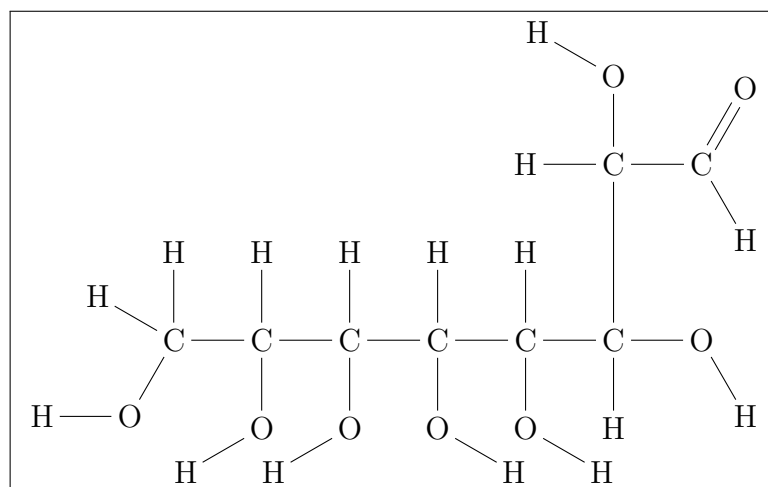


File: out/248_g_246_10300000

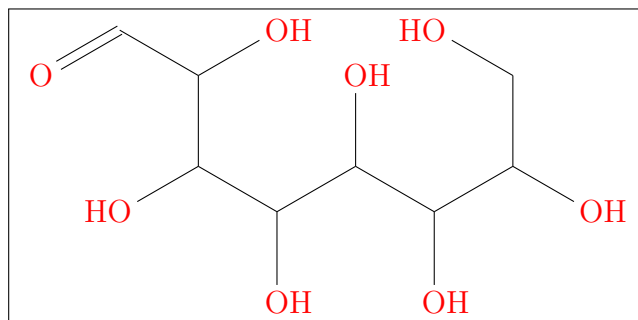


File: out/249_g_246_11310100

0.3.34 p_{0,30}

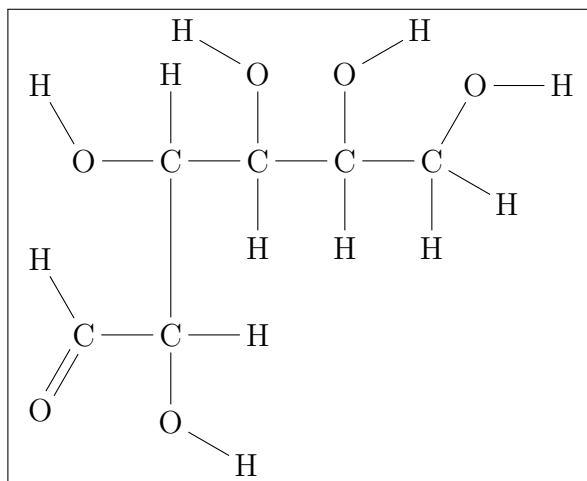


File: out/251_g_276_10300000

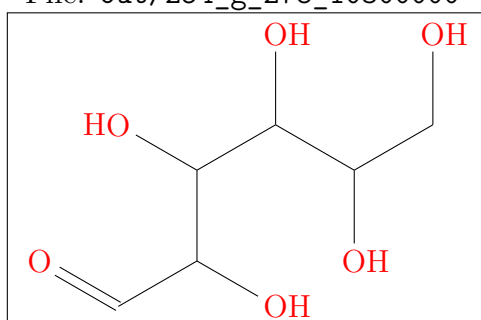


File: out/252_g_276_11310100

0.3.35 p_{0,31}

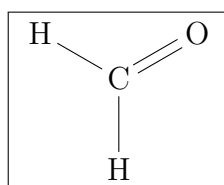


File: out/254_g_278_10300000

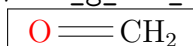


File: out/255_g_278_11310100

0.3.36 p_{0,32}

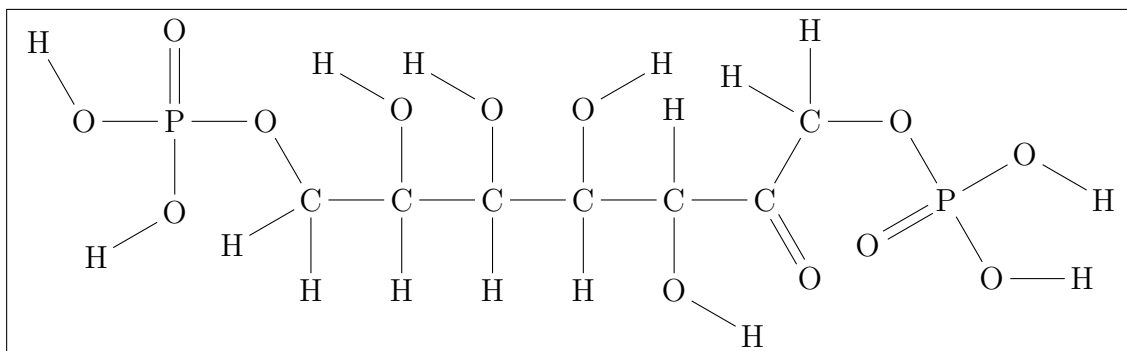


File: out/257_g_401_10300000

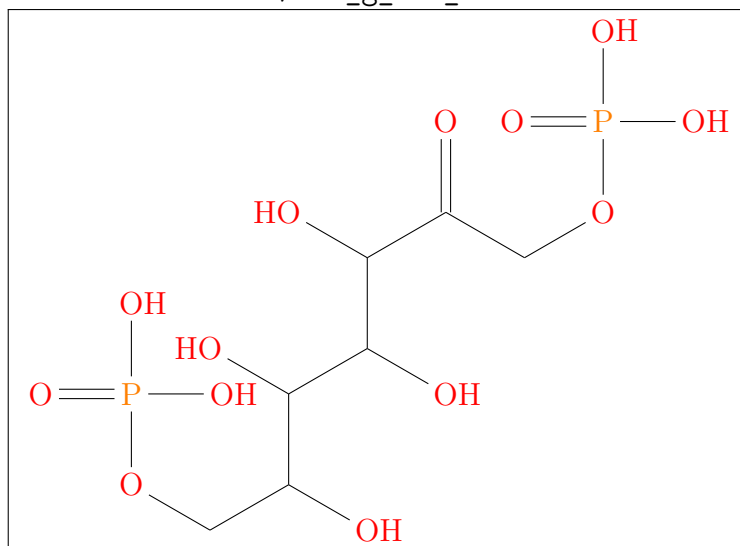


File: out/258_g_401_11310100

0.3.37 p_{0,33}

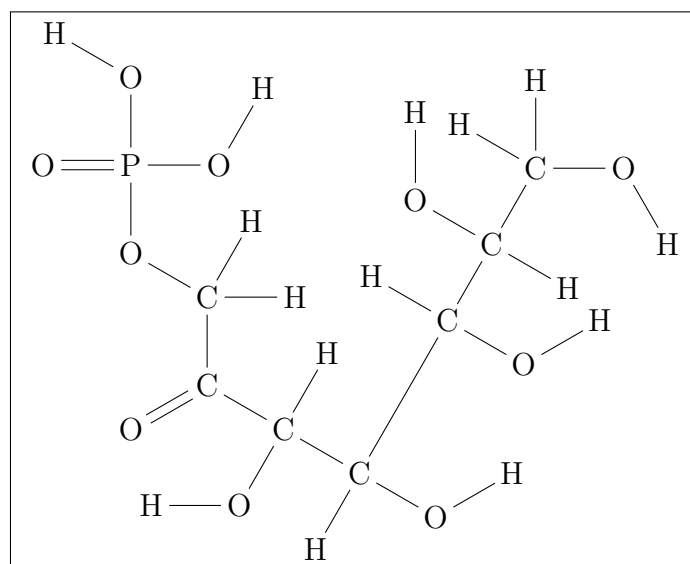


File: out/260_g_953_10300000

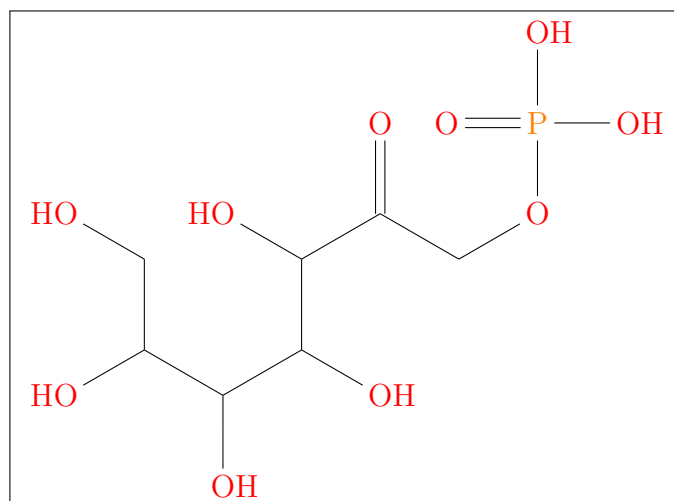


File: out/261_g_953_11310100

0.3.38 p_{0,34}

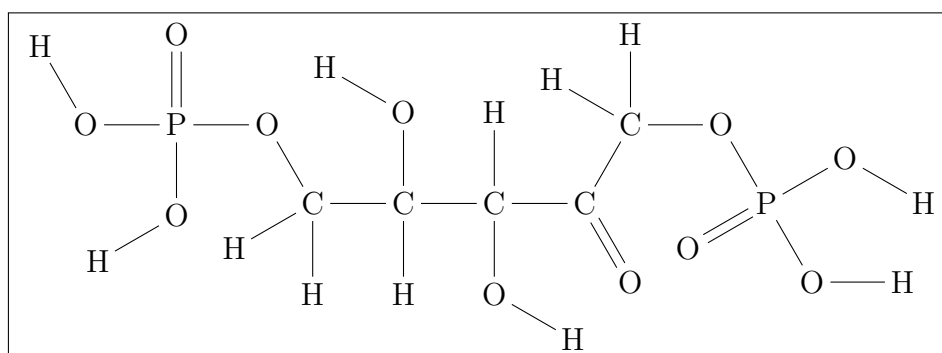


File: out/263_g_955_10300000

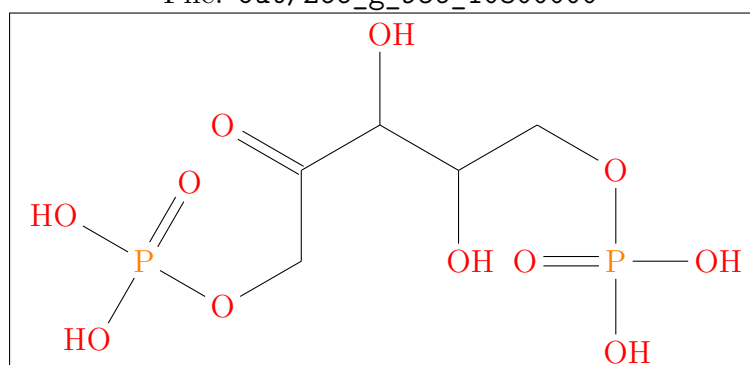


File: out/264_g_955_11310100

0.3.39 p_{0,35}

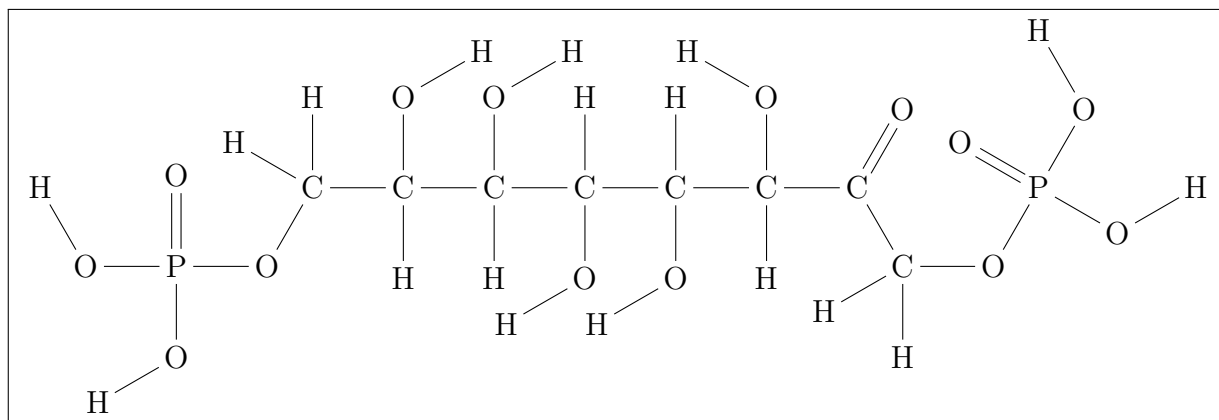


File: out/266_g_956_10300000

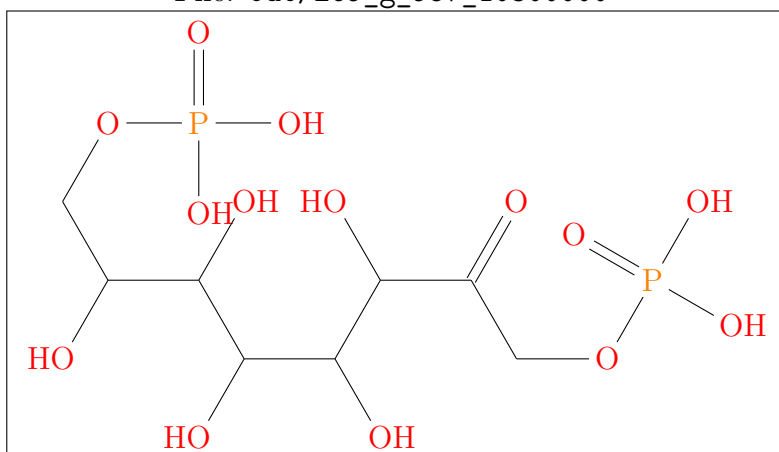


File: out/267_g_956_11310100

0.3.40 p_{0,36}

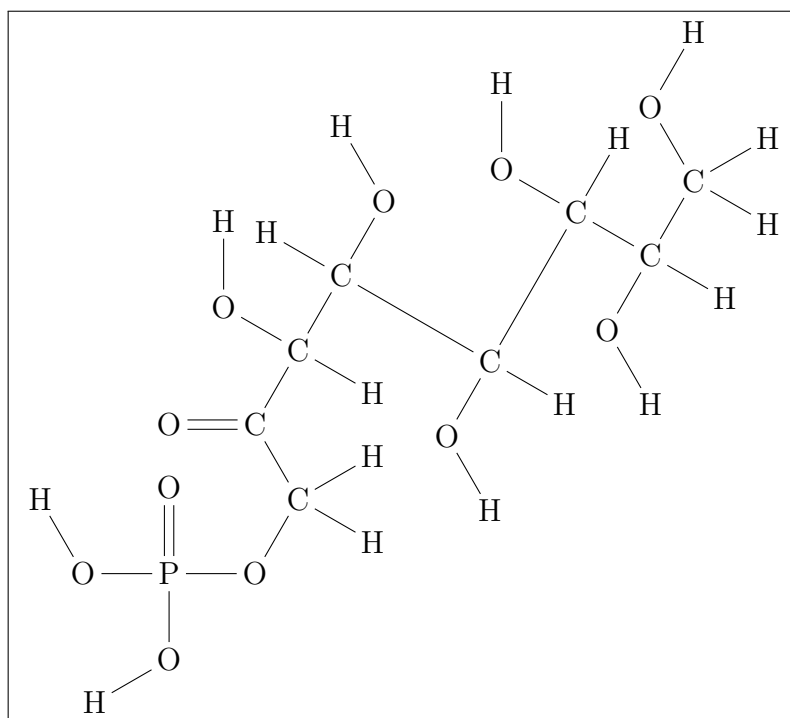


File: out/269_g_957_10300000

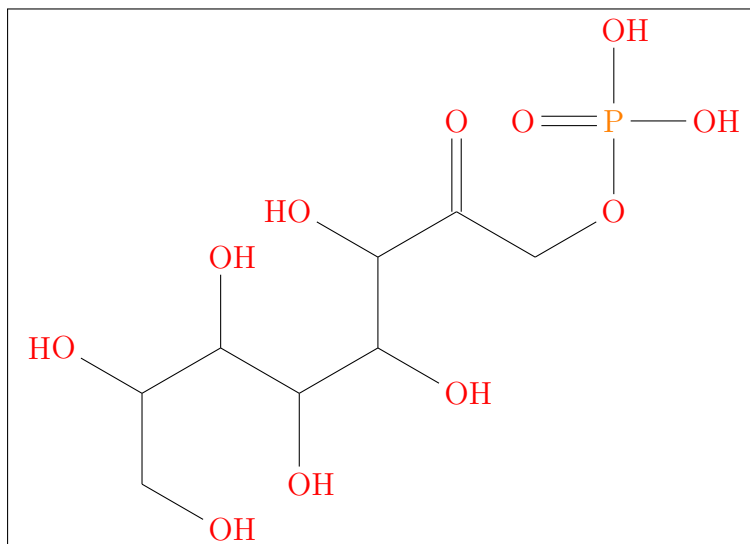


File: out/270_g_957_11310100

0.3.41 p_{0,37}

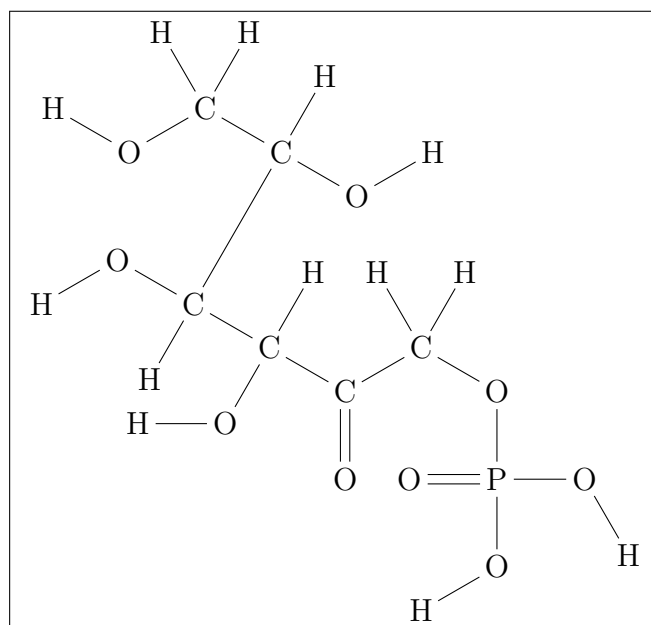


File: out/272_g_958_10300000

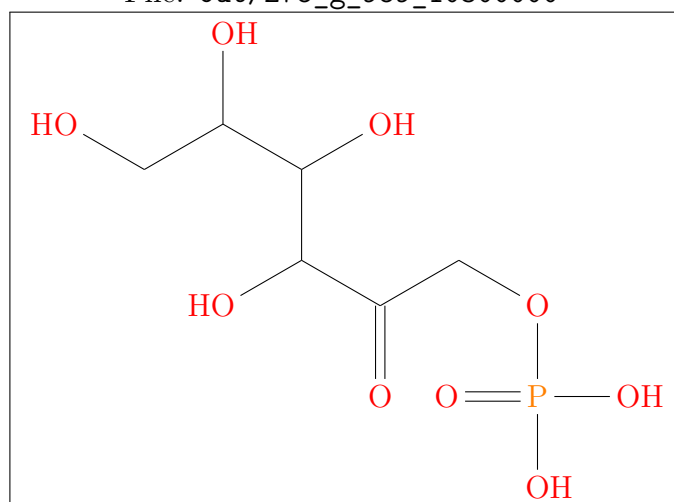


File: out/273_g_958_11310100

0.3.42 p_{0,38}

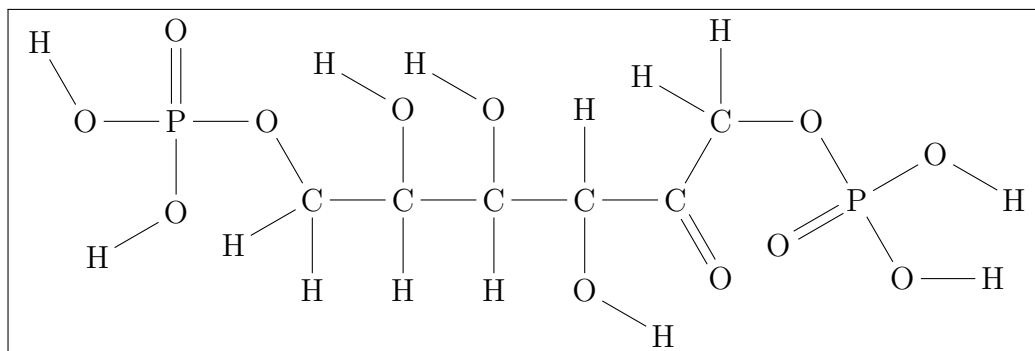


File: out/275_g_959_10300000

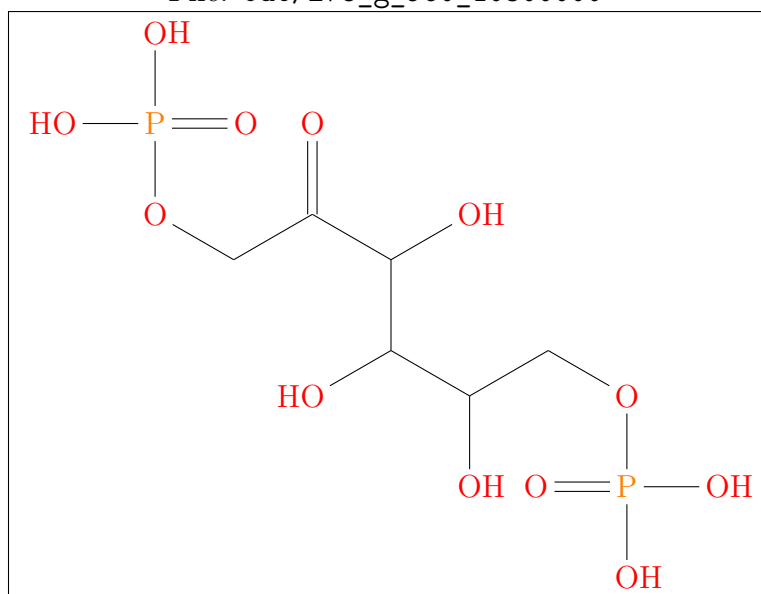


File: out/276_g_959_11310100

0.3.43 p_{0,39}

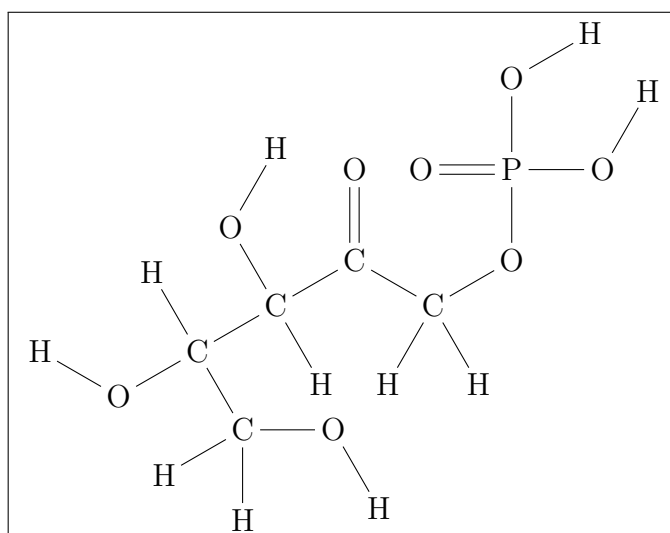


File: out/278_g_960_10300000

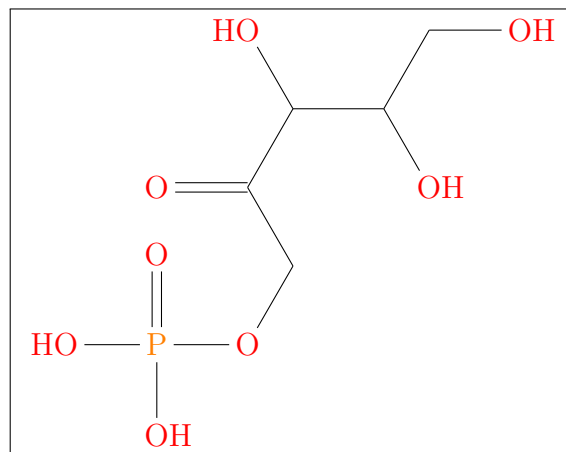


File: out/279_g_960_11310100

0.3.44 p_{0,40}

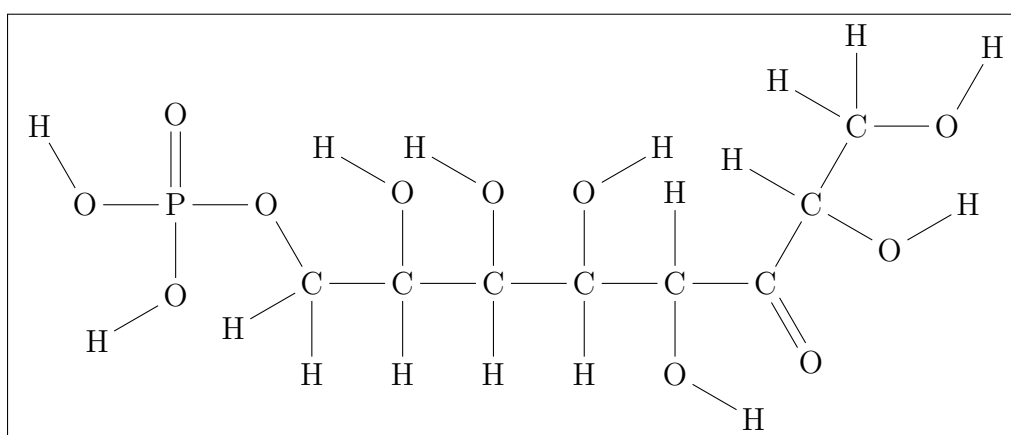


File: out/281_g_961_10300000

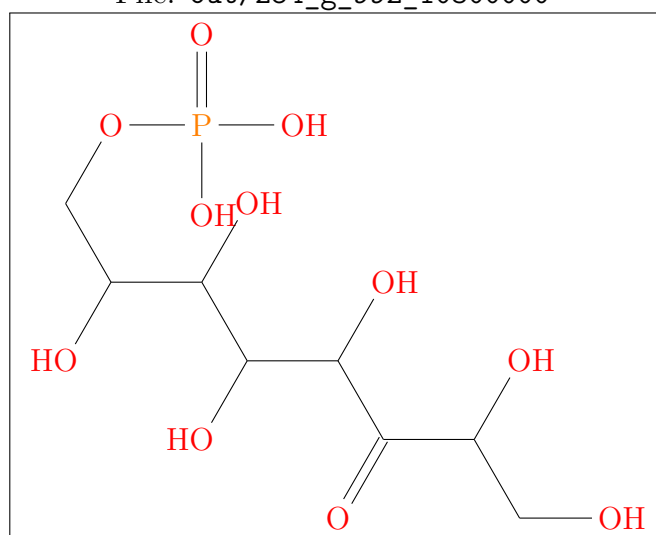


File: out/282_g_961_11310100

0.3.45 p_{0,41}

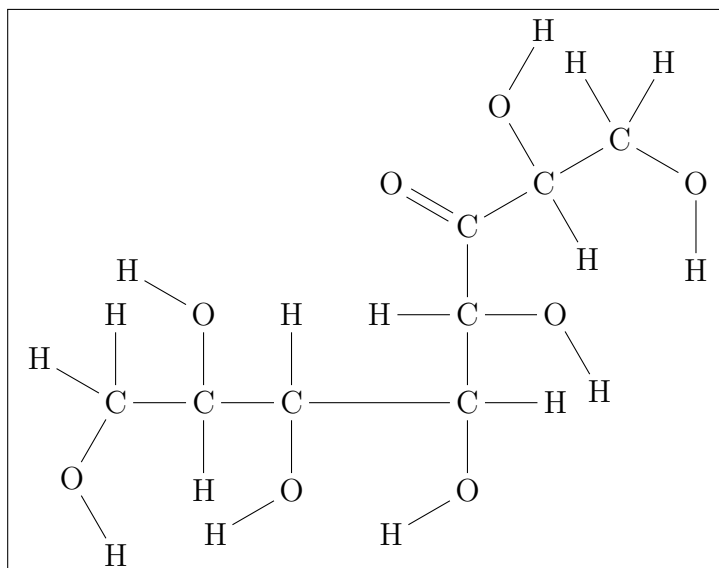


File: out/284_g_992_10300000

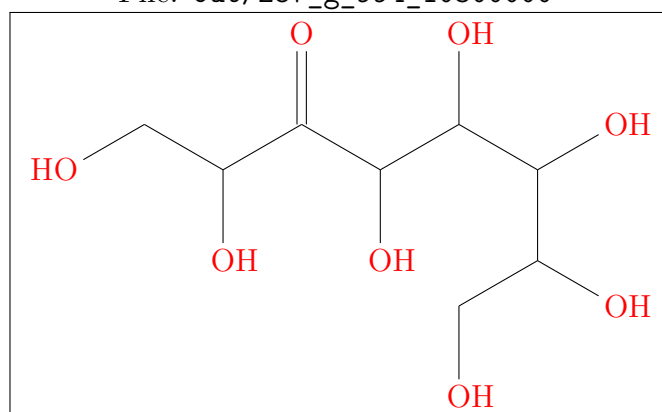


File: out/285_g_992_11310100

0.3.46 p_{0,42}

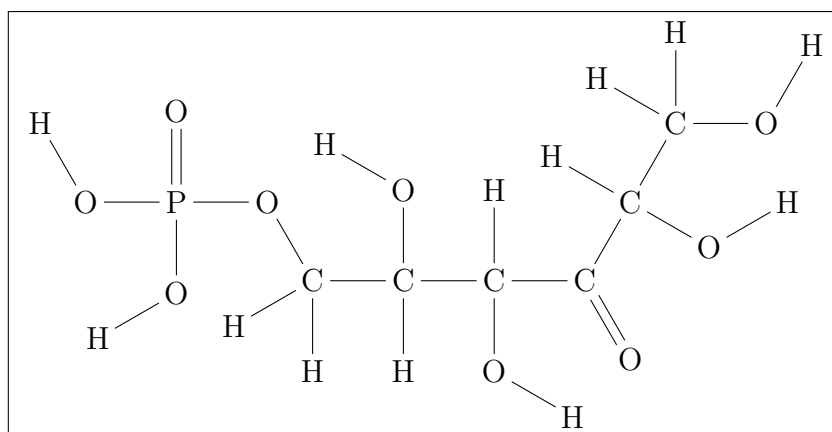


File: out/287_g_994_10300000

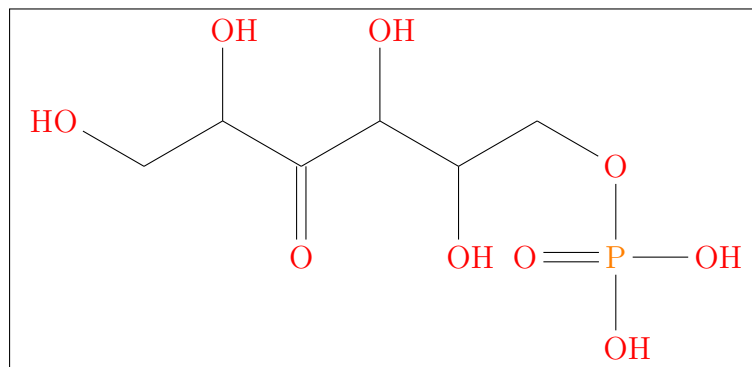


File: out/288_g_994_11310100

0.3.47 p_{0,43}

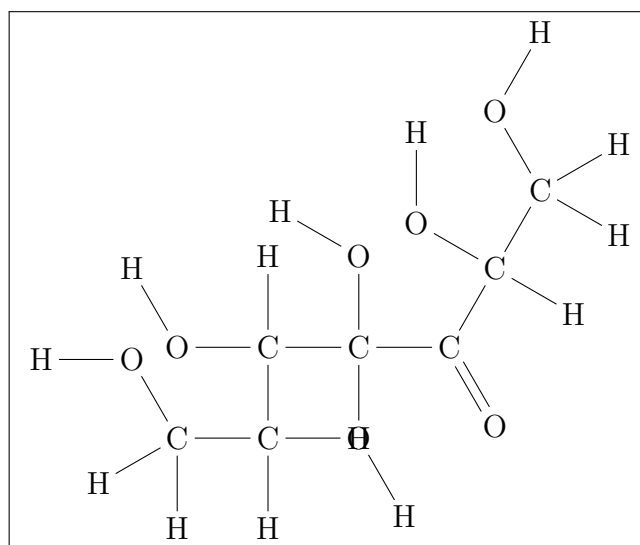


File: out/290_g_995_10300000

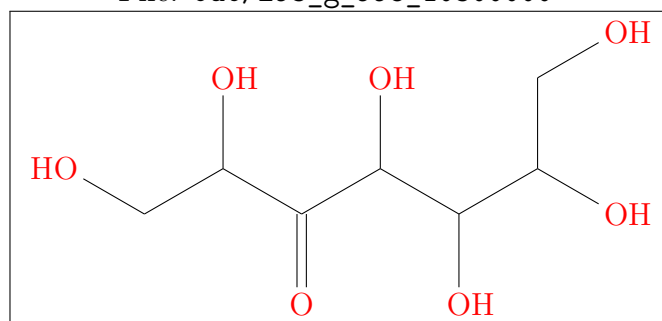


File: out/291_g_995_11310100

0.3.48 $p_{\{0,44\}}$

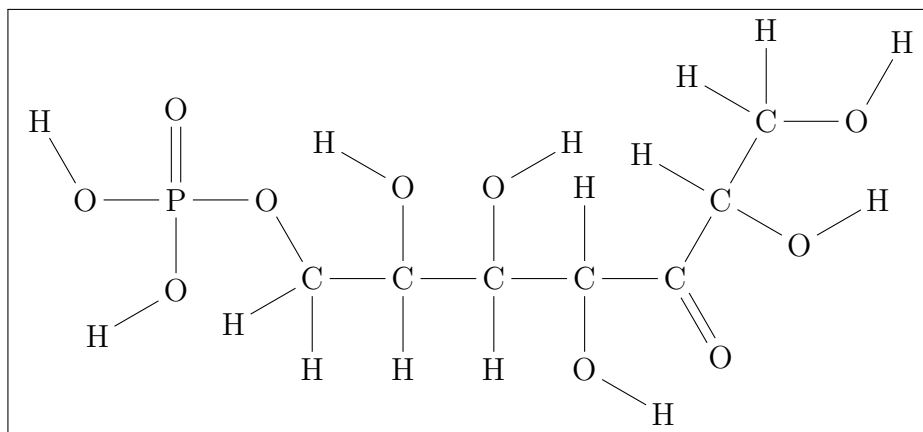


File: out/293_g_998_10300000

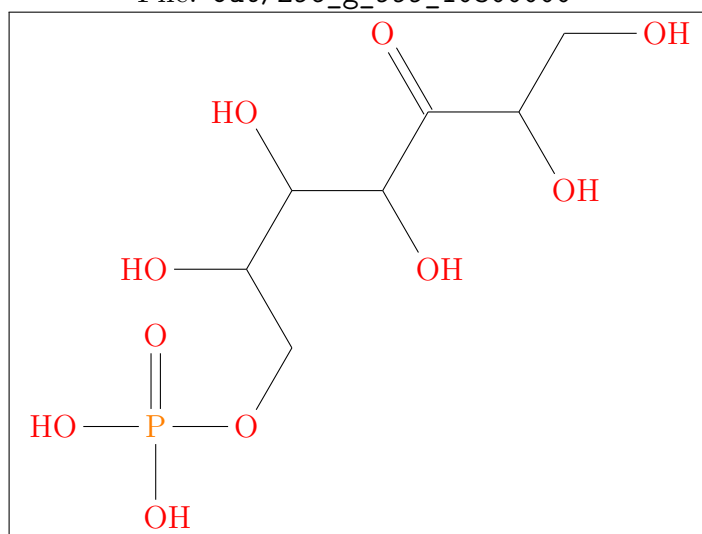


File: out/294_g_998_11310100

0.3.49 p_{0,45}

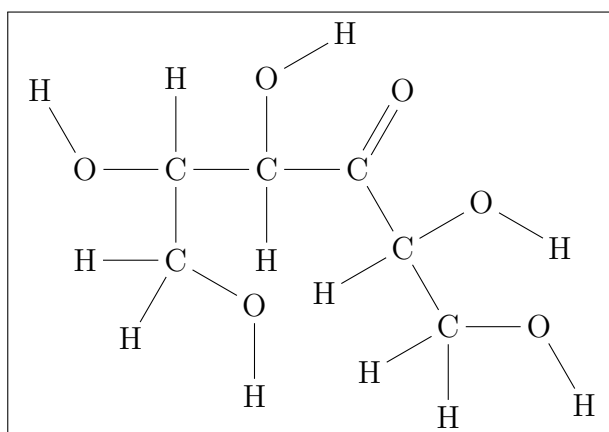


File: out/296_g_999_10300000

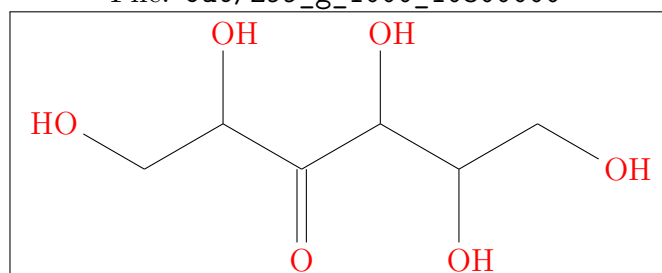


File: out/297_g_999_11310100

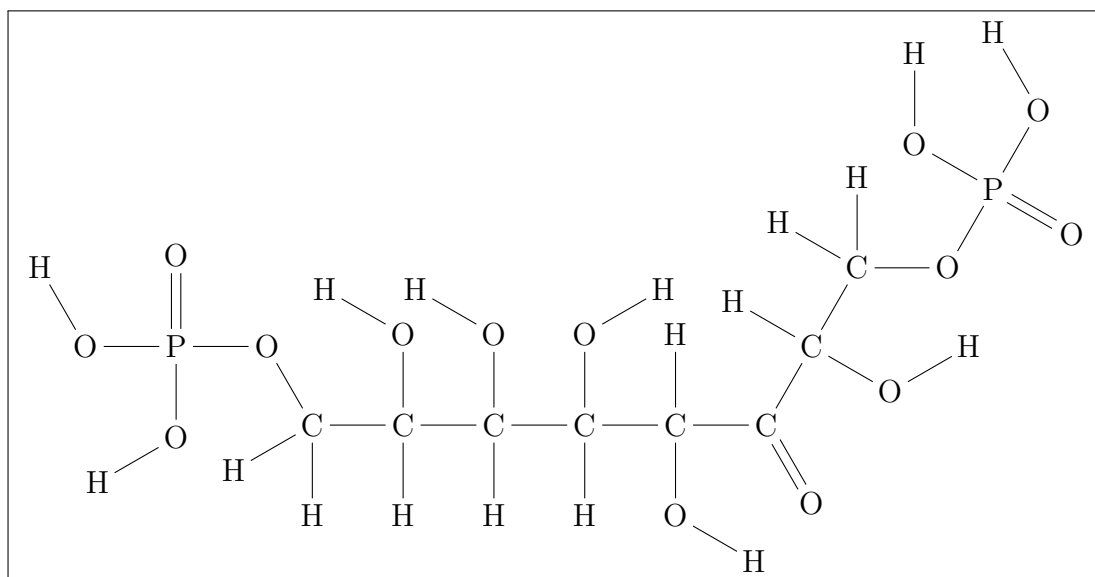
0.3.50 p_{0,46}



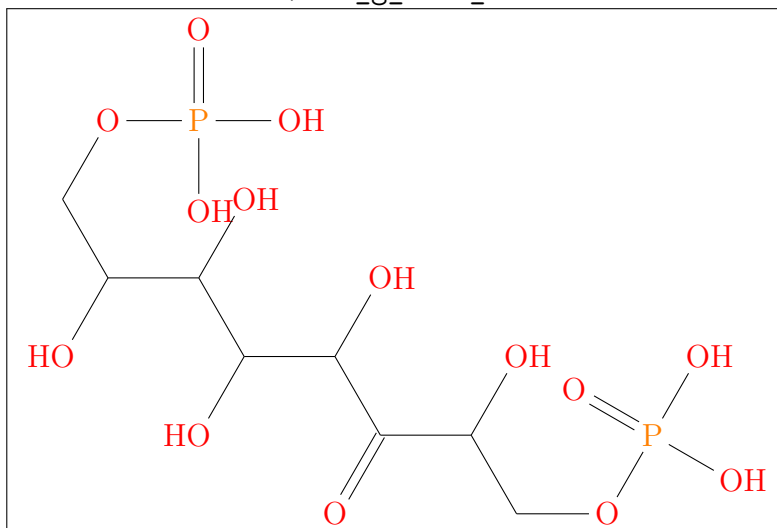
File: out/299_g_1000_10300000



0.3.51 p_{0,47}

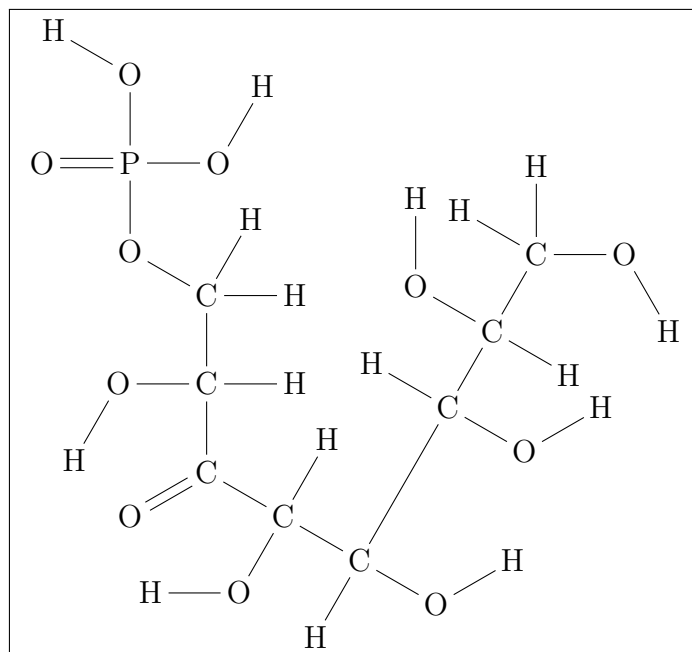


File: out/302_g_1001_10300000

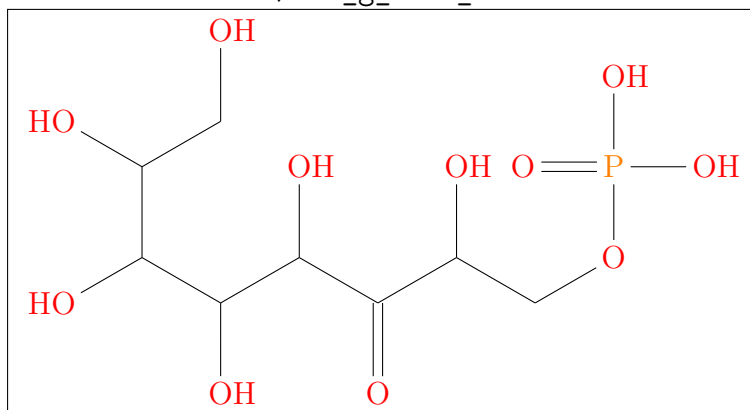


File: out/303_g_1001_11310100

0.3.52 p_{0,48}

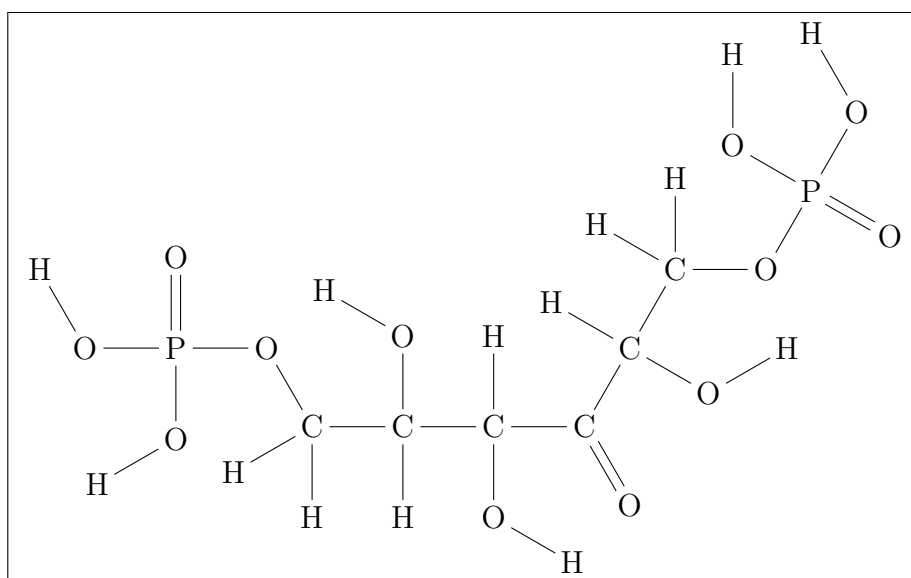


File: out/305_g_1003_10300000

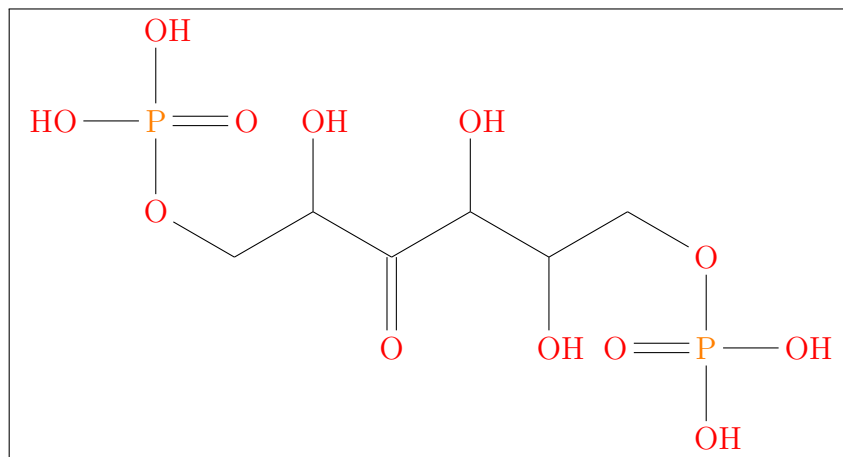


File: out/306_g_1003_11310100

0.3.53 p_{0,49}

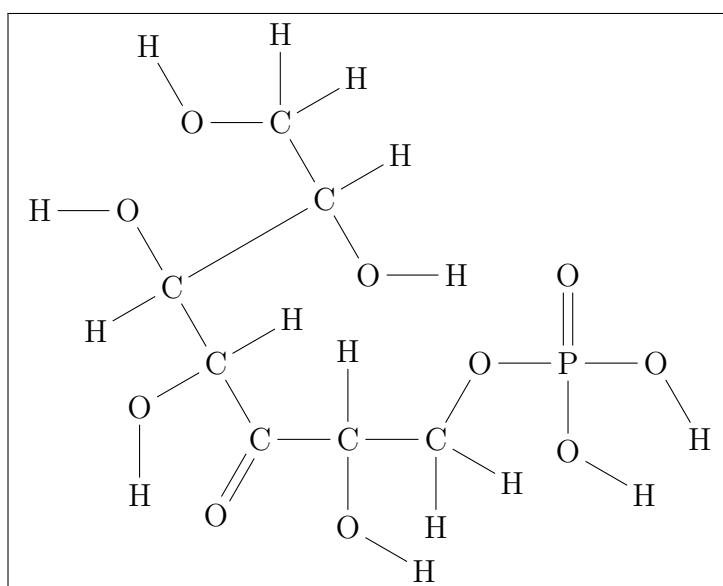


File: out/308_g_1004_10300000

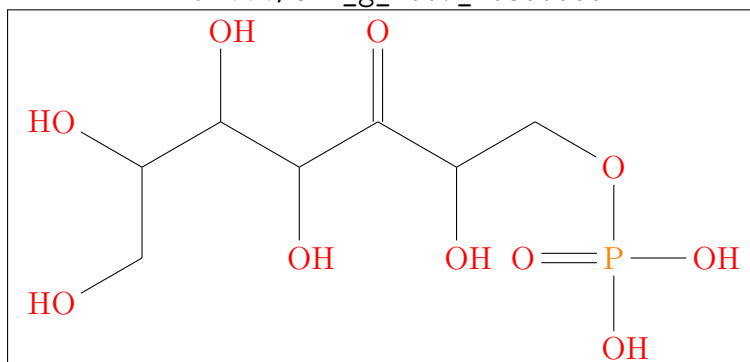


File: out/309_g_1004_11310100

0.3.54 p_{0,50}

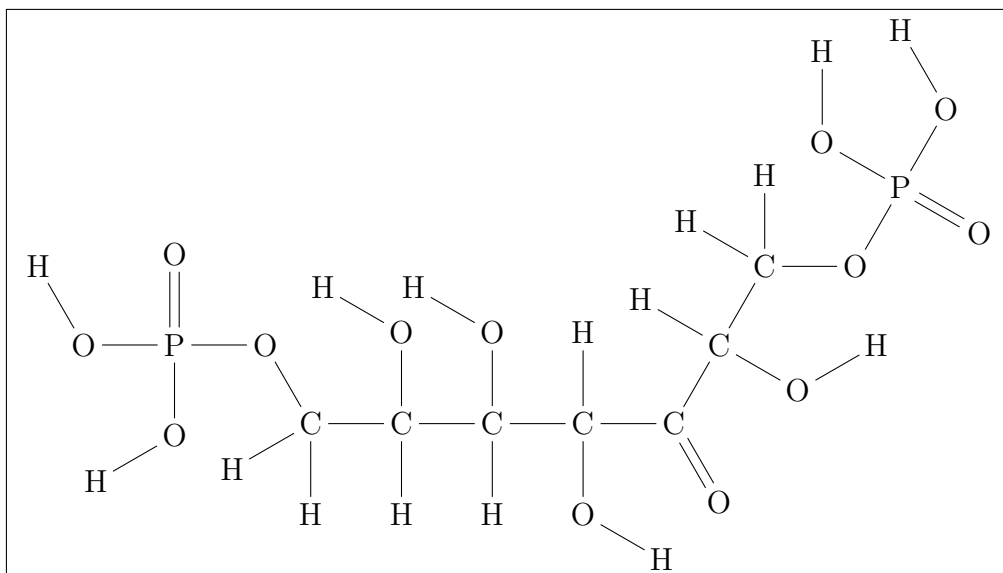


File: out/311_g_1007_10300000

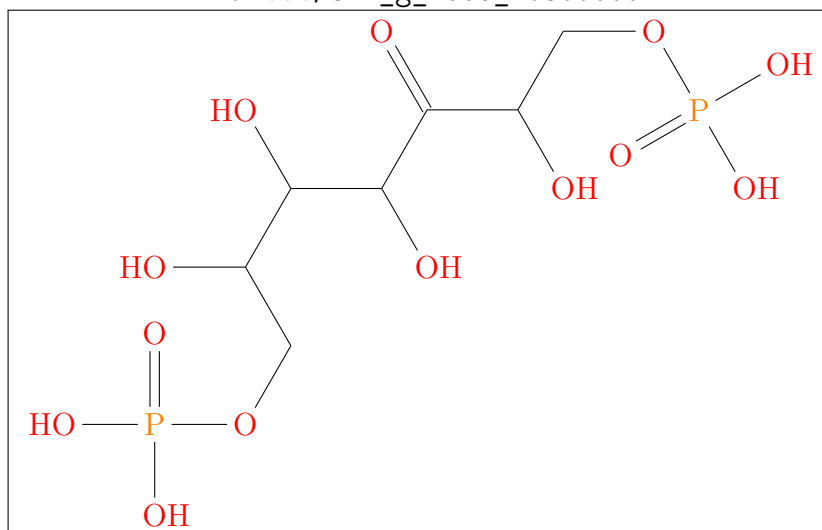


File: out/312_g_1007_11310100

0.3.55 p_{0,51}

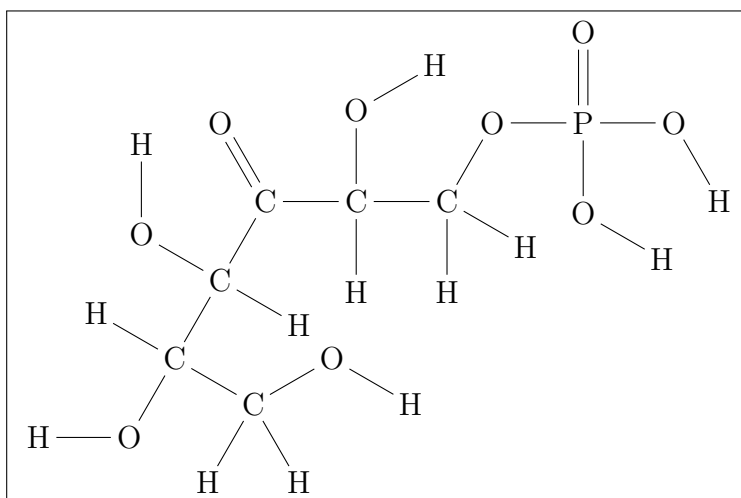


File: out/314_g_1008_10300000

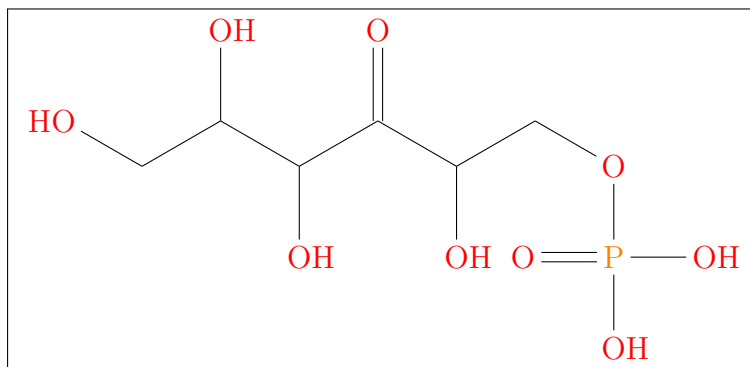


File: out/315_g_1008_11310100

0.3.56 p_{0,52}

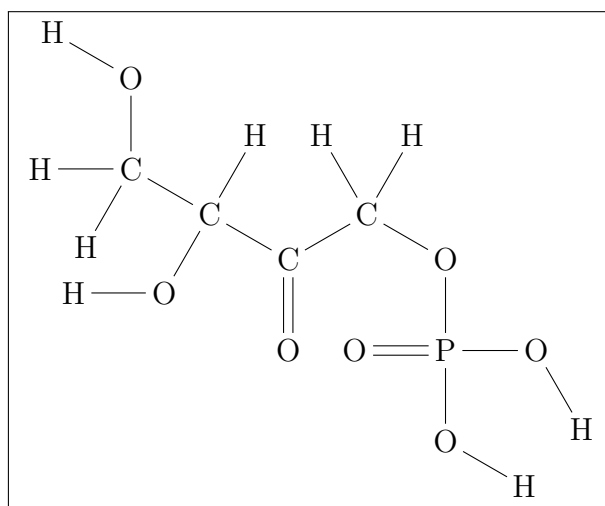


File: out/317_g_1009_10300000

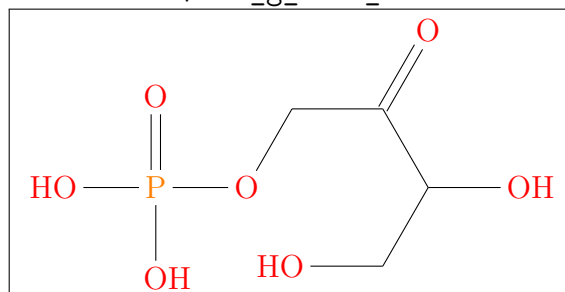


File: out/318_g_1009_11310100

0.3.57 p_{0,53}

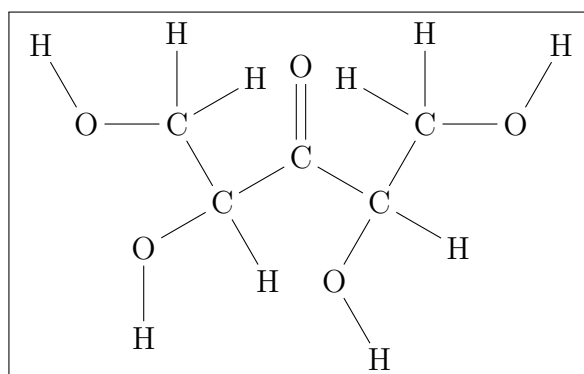


File: out/320_g_1481_10300000

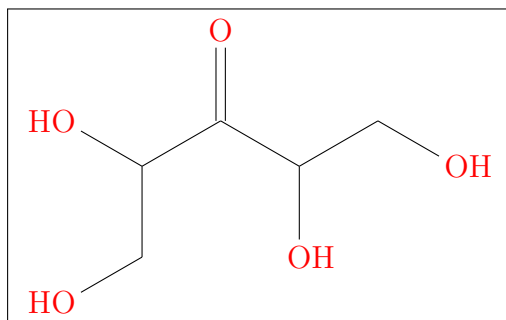


File: out/321_g_1481_11310100

0.3.58 p_{0,54}

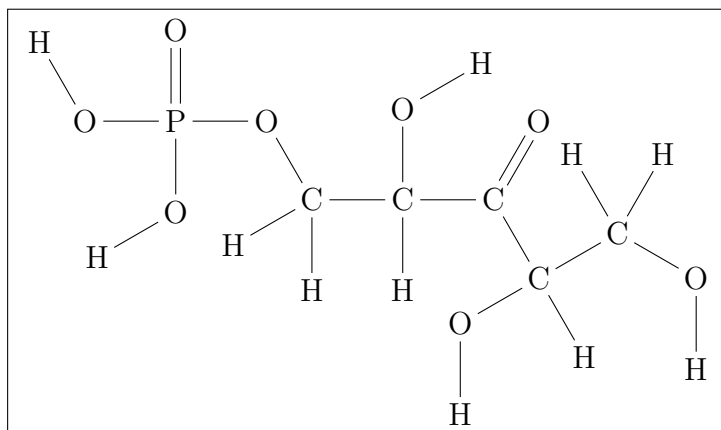


File: out/323_g_1485_10300000

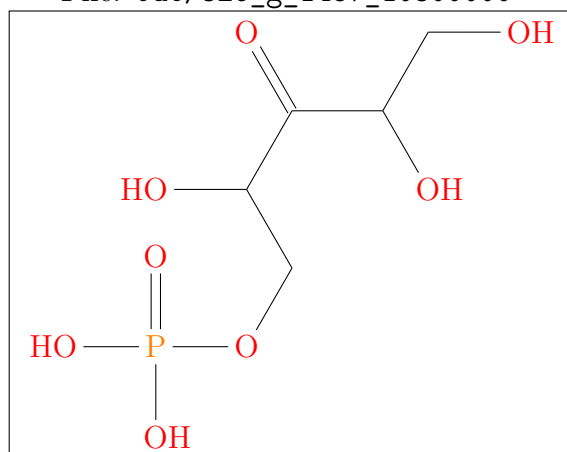


File: out/324_g_1485_11310100

0.3.59 $p_{\{0,55\}}$



File: out/326_g_1487_10300000



File: out/327_g_1487_11310100

0.4 Flow Solutions, id 0

0.4.1 Solution 0

Overall Data

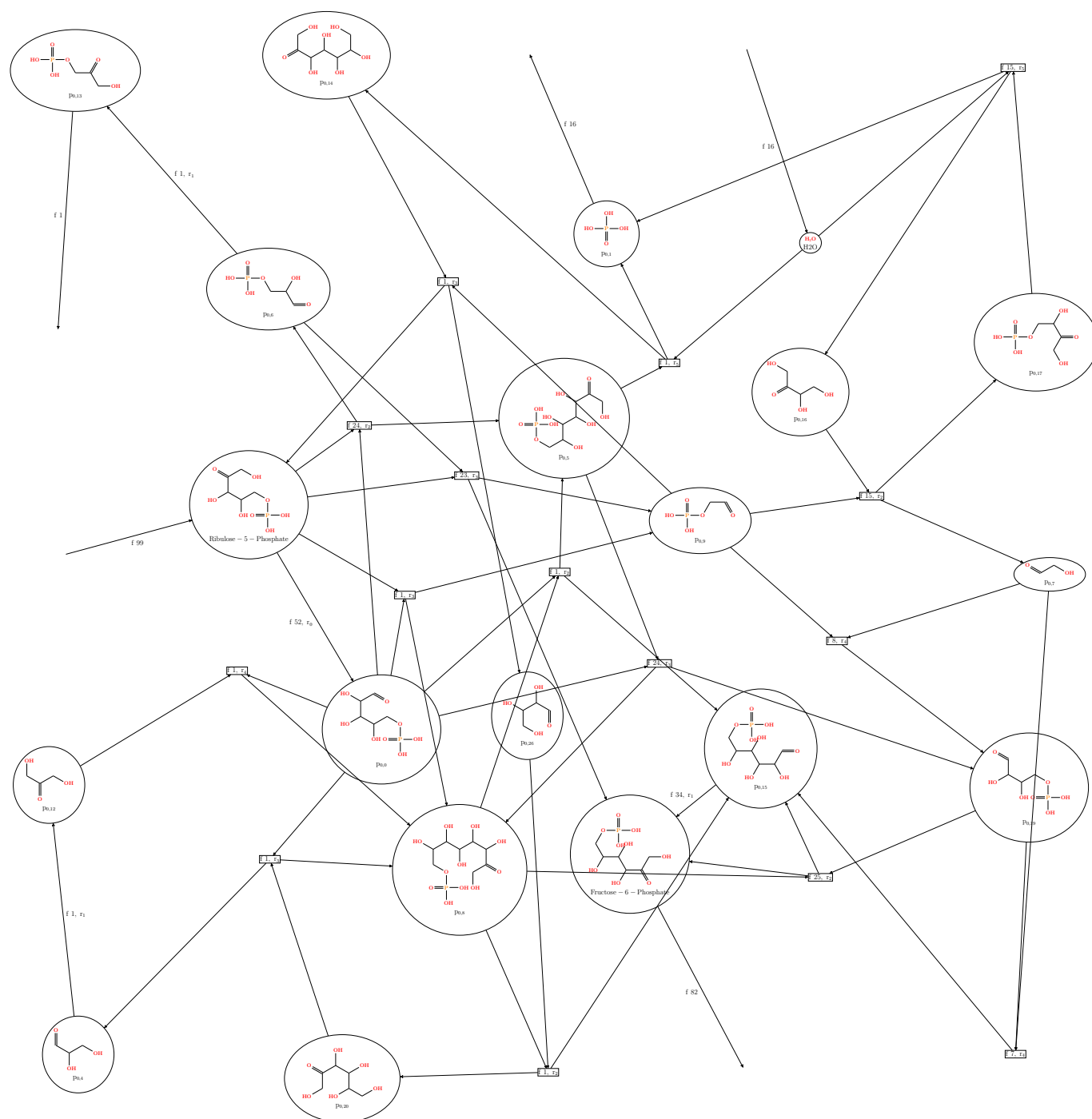
Objective value (integral): -82

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	82
H2O	16	0
Ribulose-5-Phosphate	99	0
$p_{\{0,13\}}$	0	1

p_{0,1}

0 16

Filtered Graph



File: out/330_dg_0_11100_f_0_0_filt