

Summary

April 29, 2024

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0.1 Loaded Graphs

0.1.1 g_{0}



File: out/001_g_0_10300000



File: out/003_g_0_11310100

0.1.2 g_{1}



File: out/005_g_1_10300000



File: out/007_g_1_11310100

0.1.3 g_{2}



File: out/009_g_2_10300000



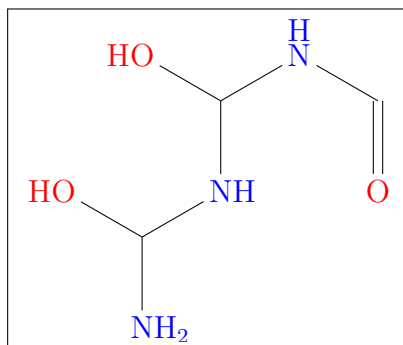
File: out/011_g_2_11310100

0.2 Product Graphs

0.2.1 p_{0,56}



File: out/013_g_1088_10300000



File: out/015_g_1088_11310100

0.3 Enumerated Flows

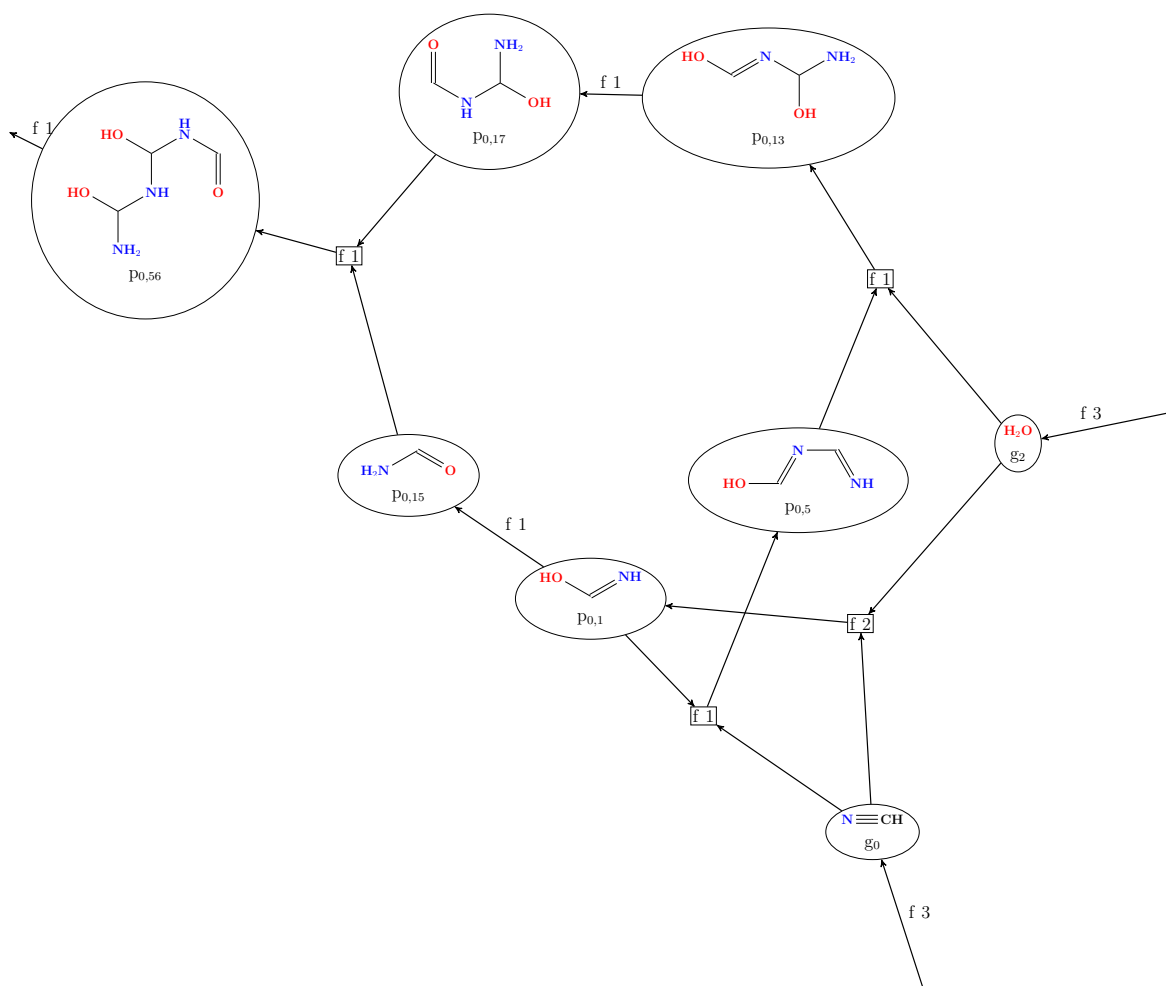
0.3.1 Solution 0

Overall Data

Objective value (non-integral): -0.119347

Vertex/Graph	In	Out	G	logK	t_order
g_{0}	3	0	-5.507152	1.000000	0
g_{2}	3	0	-5.068043	1.000000	0
p_{0,13}	0	0	-21.240678	1.000000	3
p_{0,15}	0	0	-10.625174	1.000000	55
p_{0,17}	0	0	-21.248844	1.000000	11
p_{0,1}	0	0	-10.610101	1.000000	1
p_{0,56}	0	1	-31.869324	-6.000000	67
p_{0,5}	0	0	-16.158998	1.000000	2

Filtered Graph



File: out/032_dg_0_11100_f_0_0_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	1.0	-5727.178135	0
g_2	3	0	-13306.144961	1.0	-4574.297519	0
$p_{0,1}$	0	0	-27856.817054	1.0	-19124.969612	1
$p_{0,5}$	0	0	-42425.44262	1.0	-33693.595178	2
$p_{0,13}$	0	0	-55767.391129	1.0	-47035.543686	3
$p_{0,15}$	0	0	-27896.389963	1.0	-19164.54252	55
$p_{0,17}$	0	0	-55788.832737	1.0	-47056.985295	11
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	2	-94.140854	-94.140854
14	$g_0, p_{0,1},$	$p_{0,5},$	1	-112.094327	-112.094327
36	$p_{0,1},$	$p_{0,15},$	1	-39.572909	-39.572909
123	$g_2, p_{0,5},$	$p_{0,13},$	1	-38.297886	-38.297886
181	$p_{0,15}, p_{0,17},$	$p_{0,56},$	1	-7.630802	-7.630802
250	$p_{0,13},$	$p_{0,17},$	1	-21.441608	-21.441608
Sum					-313.178387

$|E| = 7$

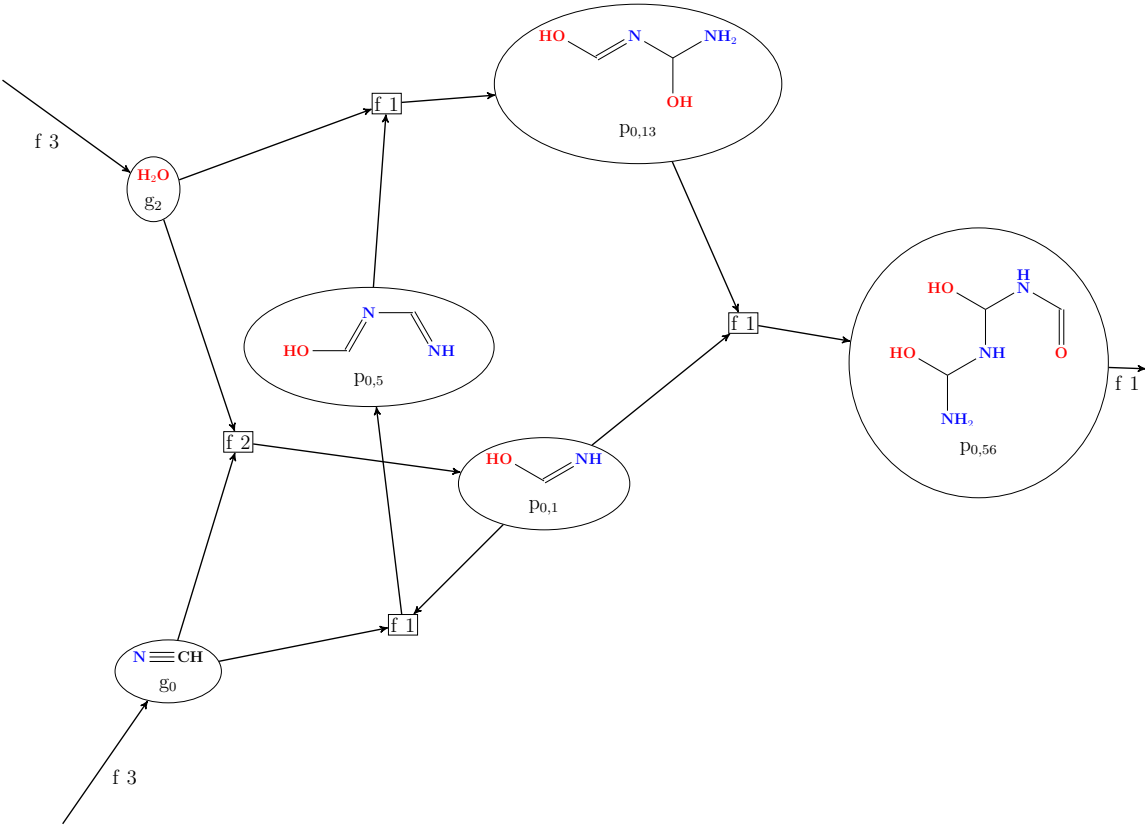
0.3.2 Solution 1

Overall Data

Objective value (non-integral): -0.119347

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	1.000000	0
$g_{\{2\}}$	3	0	-5.068043	1.000000	0
$p_{\{0,13\}}$	0	0	-21.240678	-6.000000	34
$p_{\{0,1\}}$	0	0	-10.610101	1.000000	32
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67
$p_{\{0,5\}}$	0	0	-16.158998	-6.000000	33

Filtered Graph



File: out/038_dg_0_11100_f_0_1_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	1.0	-5727.178135	0
g_2	3	0	-13306.144961	1.0	-4574.297519	0
$p_{0,1}$	0	0	-27856.817054	1.0	-19124.969612	32
$p_{0,5}$	0	0	-42425.44262	-6.0	-94816.527276	33
$p_{0,13}$	0	0	-55767.391129	-6.0	-108158.475784	34
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	2	-94.140854	-94.140854
14	$g_0, p_{0,1},$	$p_{0,5},$	1	-129.554699	-129.554699
123	$g_2, p_{0,5},$	$p_{0,13},$	1	-38.297886	-38.297886
263	$p_{0,1}, p_{0,13},$	$p_{0,56},$	1	-51.184947	-51.184947
Sum					-313.178387

$|E| = 5$

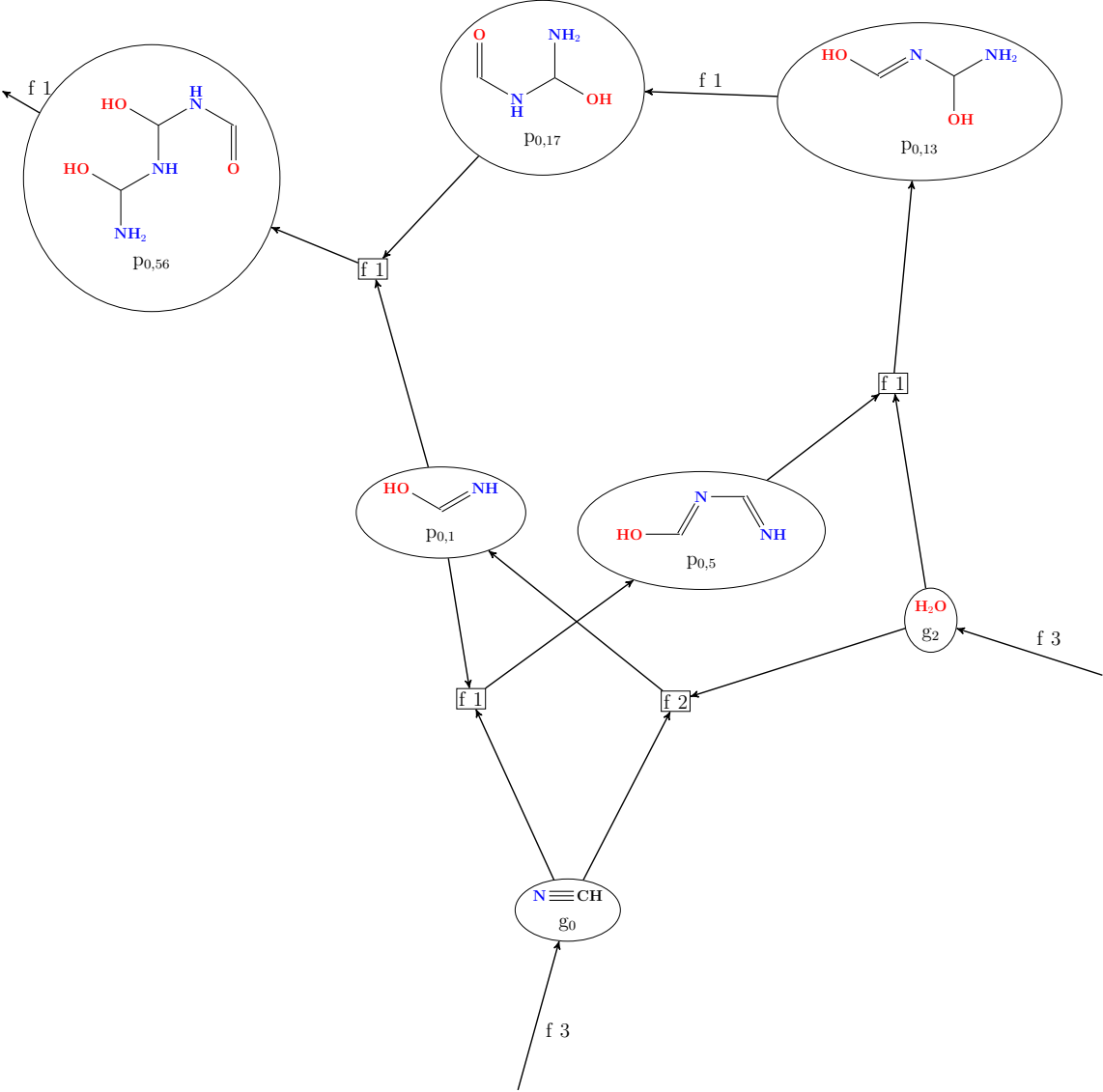
0.3.3 Solution 2

Overall Data

Objective value (non-integral): -0.119347

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	1.000000	0
$g_{\{2\}}$	3	0	-5.068043	1.000000	0
$p_{\{0,13\}}$	0	0	-21.240678	1.000000	3
$p_{\{0,17\}}$	0	0	-21.248887	-6.000000	65
$p_{\{0,1\}}$	0	0	-10.610101	-6.000000	1
$p_{\{0,56\}}$	0	1	-31.869324	-1.117943	67
$p_{\{0,5\}}$	0	0	-16.158998	1.000000	2

Filtered Graph



File: out/044_dg_0_11100_f_0_2_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	1.0	-5727.178135	0
g_2	3	0	-13306.144961	1.0	-4574.297519	0
$p_{0,1}$	0	0	-27856.817054	-6.0	-80247.90171	1
$p_{0,5}$	0	0	-42425.44262	1.0	-33693.595178	2
$p_{0,13}$	0	0	-55767.391129	1.0	-47035.543686	3
$p_{0,17}$	0	0	-55788.944315	-6.0	-108180.02897	65
$p_{0,56}$	0	1	-83672.898792	-1.117943	-93434.61058	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	2	-111.601226	-111.601226
14	$g_0, p_{0,1},$	$p_{0,5},$	1	-94.633956	-94.633956
123	$g_2, p_{0,5},$	$p_{0,13},$	1	-38.297886	-38.297886
196	$p_{0,1}, p_{0,17},$	$p_{0,56},$	1	0.006113	0.006113
250	$p_{0,13},$	$p_{0,17},$	1	-39.013557	-39.013557
Sum					-283.540512

$|E| = 6$

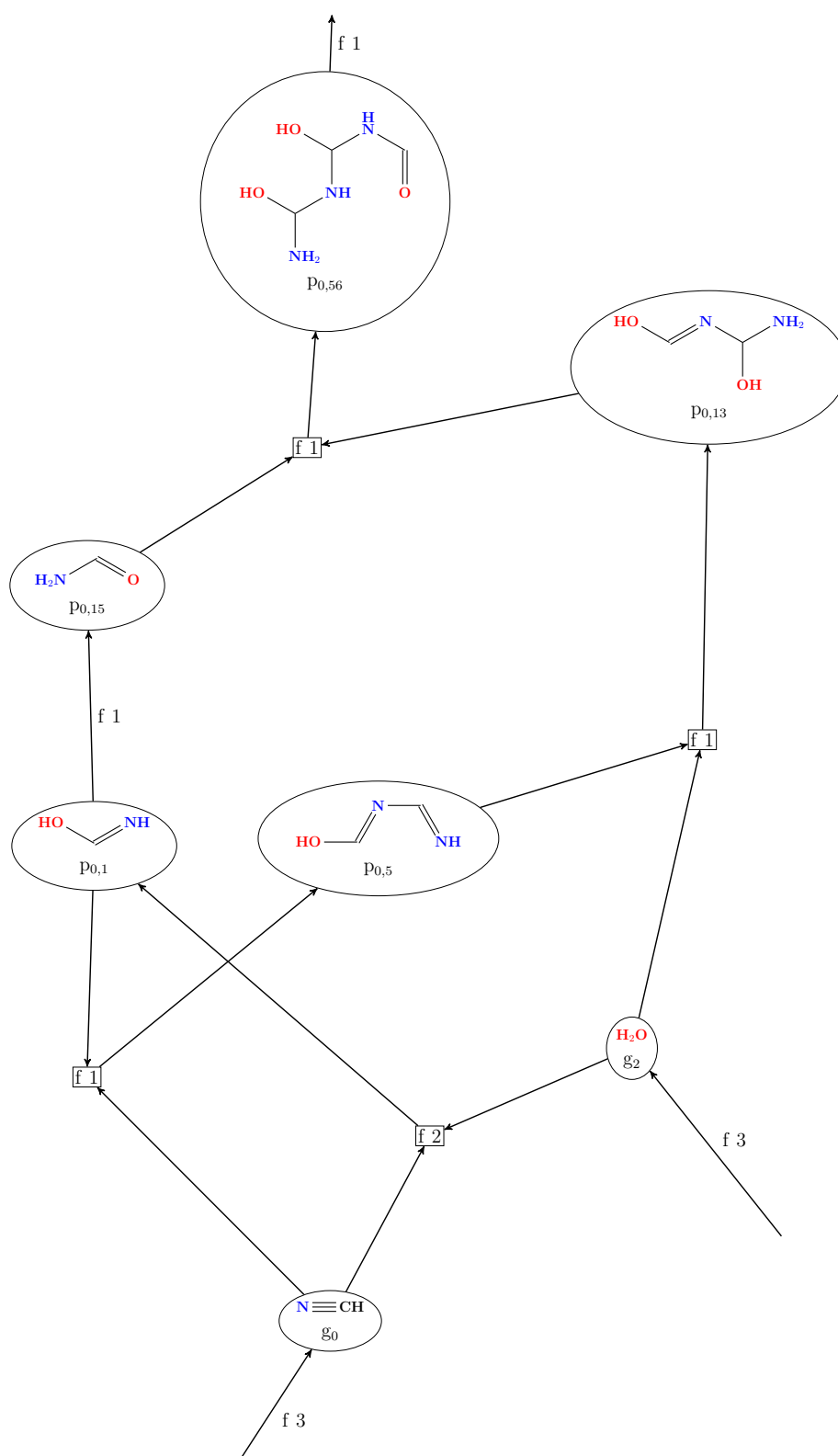
0.3.4 Solution 3

Overall Data

Objective value (non-integral): -0.119347

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	1.000000	0
$g_{\{2\}}$	3	0	-5.068043	1.000000	0
$p_{\{0,13\}}$	0	0	-21.240678	-3.635441	22
$p_{\{0,15\}}$	0	0	-10.625195	-6.000000	21
$p_{\{0,1\}}$	0	0	-10.610101	1.000000	20
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67
$p_{\{0,5\}}$	0	0	-16.158998	-6.000000	21

Filtered Graph



File: out/050_dg_0_11100_f_0_3_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	1.0	-5727.178135	0
g_2	3	0	-13306.144961	1.0	-4574.297519	0
$p_{0,1}$	0	0	-27856.817054	1.0	-19124.969612	20
$p_{0,5}$	0	0	-42425.44262	-6.0	-94816.527276	21
$p_{0,13}$	0	0	-55767.391129	-3.635441	-87511.503034	22
$p_{0,15}$	0	0	-27896.445756	-6.0	-80287.530411	21
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	2	-94.140854	-94.140854
14	$g_0, p_{0,1},$	$p_{0,5},$	1	-129.554699	-129.554699
36	$p_{0,1},$	$p_{0,15},$	1	-57.089073	-57.089073
123	$g_2, p_{0,5},$	$p_{0,13},$	1	-32.399874	-32.399874
169	$p_{0,13}, p_{0,15},$	$p_{0,56},$	1	0.006113	0.006113
Sum					-313.178387

$|E| = 6$

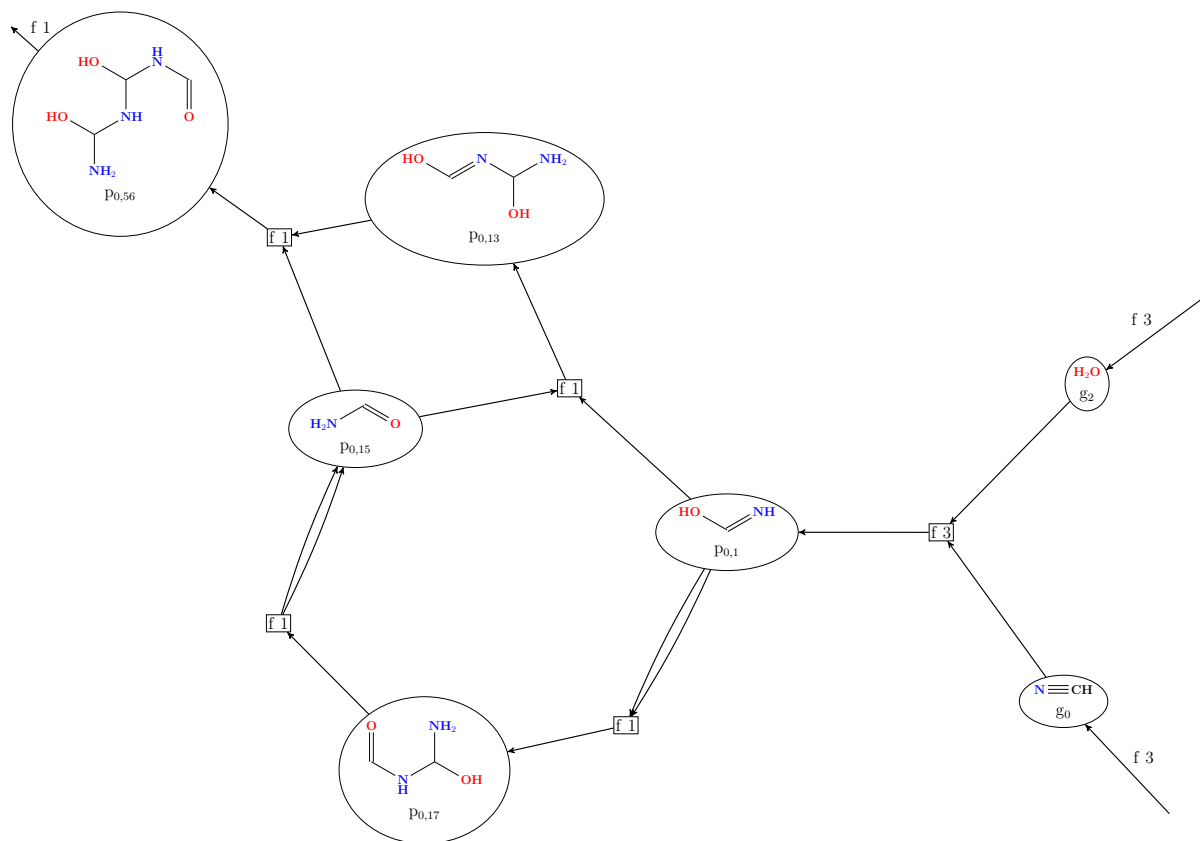
0.3.5 Solution 4

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	1.000000	0
$g_{\{2\}}$	3	0	-5.068043	1.000000	0
$p_{\{0,13\}}$	0	0	-21.240635	0.644257	39
$p_{\{0,15\}}$	0	0	-10.625174	-6.000000	26
$p_{\{0,17\}}$	0	0	-21.248887	-6.000000	3
$p_{\{0,1\}}$	0	0	-10.610101	1.000000	1
$p_{\{0,56\}}$	0	1	-31.869260	-1.720309	67

Filtered Graph



File: out/056_dg_0_11100_f_0_4_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	1.0	-5727.178135	0
g_2	3	0	-13306.144961	1.0	-4574.297519	0
$p_{0,1}$	0	0	-27856.817054	1.0	-19124.969612	1
$p_{0,13}$	0	0	-55767.279594	0.644257	-50141.723105	39
$p_{0,15}$	0	0	-27896.389963	-6.0	-80287.474618	26
$p_{0,17}$	0	0	-55788.944315	-6.0	-108180.02897	3
$p_{0,56}$	0	1	-83672.731446	-1.720309	-98694.211153	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-94.140854	-94.140854
40	$p_{0,1}, p_{0,1},$	$p_{0,17},$	1	-95.264916	-95.264916
169	$p_{0,13}, p_{0,15},$	$p_{0,56},$	1	0.006113	0.006113
192	$p_{0,1}, p_{0,15},$	$p_{0,13},$	1	0.006113	0.006113
237	$p_{0,17},$	$p_{0,15}, p_{0,15},$	1	-18.801644	-18.801644
Sum					-208.195188

$|E| = 7$

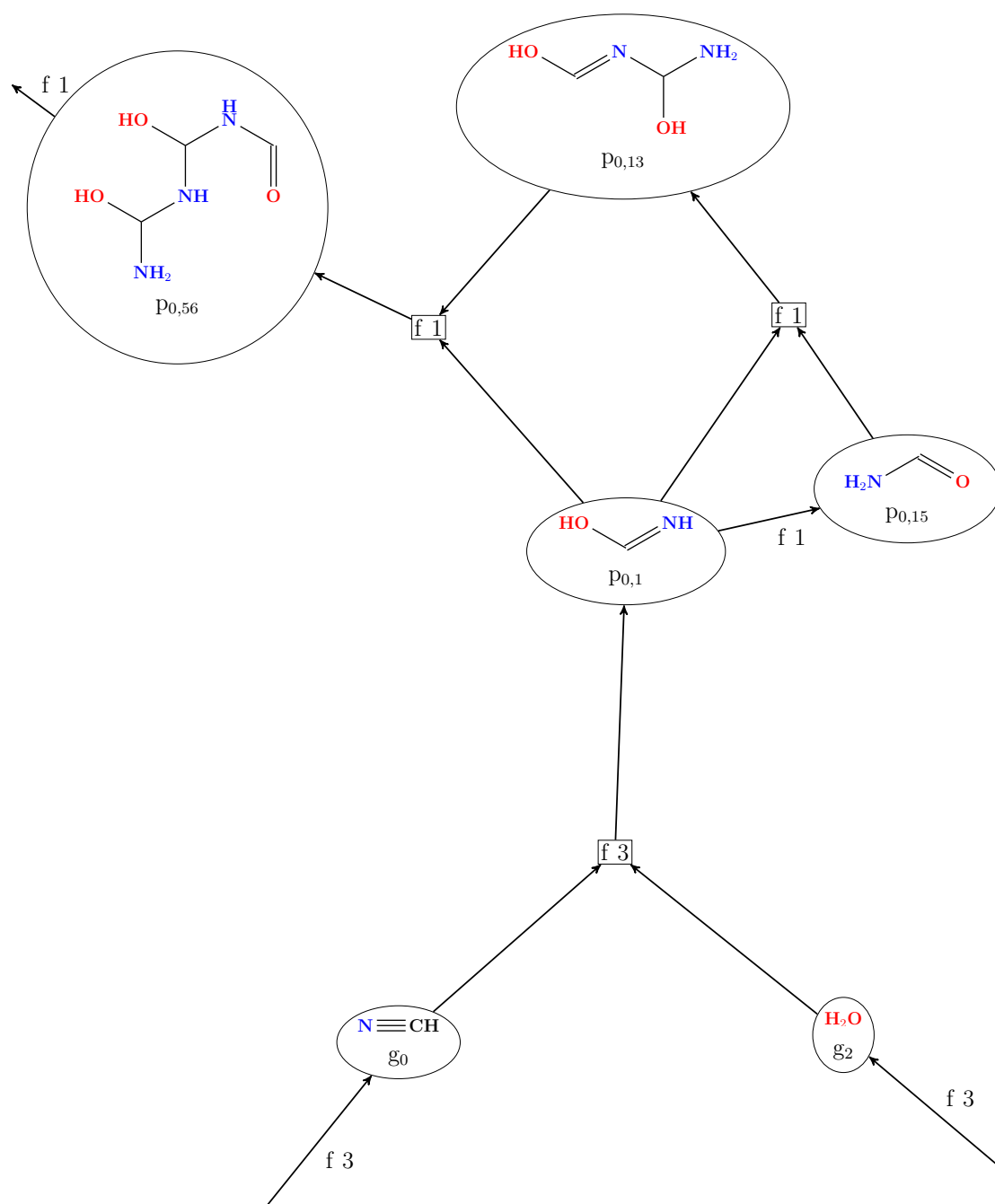
0.3.6 Solution 5

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507141	1.000000	0
$g_{\{2\}}$	3	0	-5.068033	1.000000	0
$p_{\{0,13\}}$	0	0	-21.240678	-6.000000	51
$p_{\{0,15\}}$	0	0	-10.625195	-5.666605	35
$p_{\{0,1\}}$	0	0	-10.610101	-6.000000	15
$p_{\{0,56\}}$	0	1	-31.869260	1.000000	67

Filtered Graph



File: out/062_dg_0_11100_f_0_5_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14458.99666	1.0	-5727.149217	0
g_2	3	0	-13306.118349	1.0	-4574.270906	0
$p_{0,1}$	0	0	-27856.817054	-6.0	-80247.90171	15
$p_{0,13}$	0	0	-55767.391129	-6.0	-108158.475784	51
$p_{0,15}$	0	0	-27896.445756	-5.666605	-77376.373015	35
$p_{0,56}$	0	1	-83672.731446	1.0	-74940.884004	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-111.656756	-111.656756
36	$p_{0,1},$	$p_{0,15},$	1	-38.7971	-38.7971
192	$p_{0,1}, p_{0,15},$	$p_{0,13},$	1	0.006113	0.006113
263	$p_{0,1}, p_{0,13},$	$p_{0,56},$	1	-16.096859	-16.096859
Sum					-166.544602

$|E| = 6$

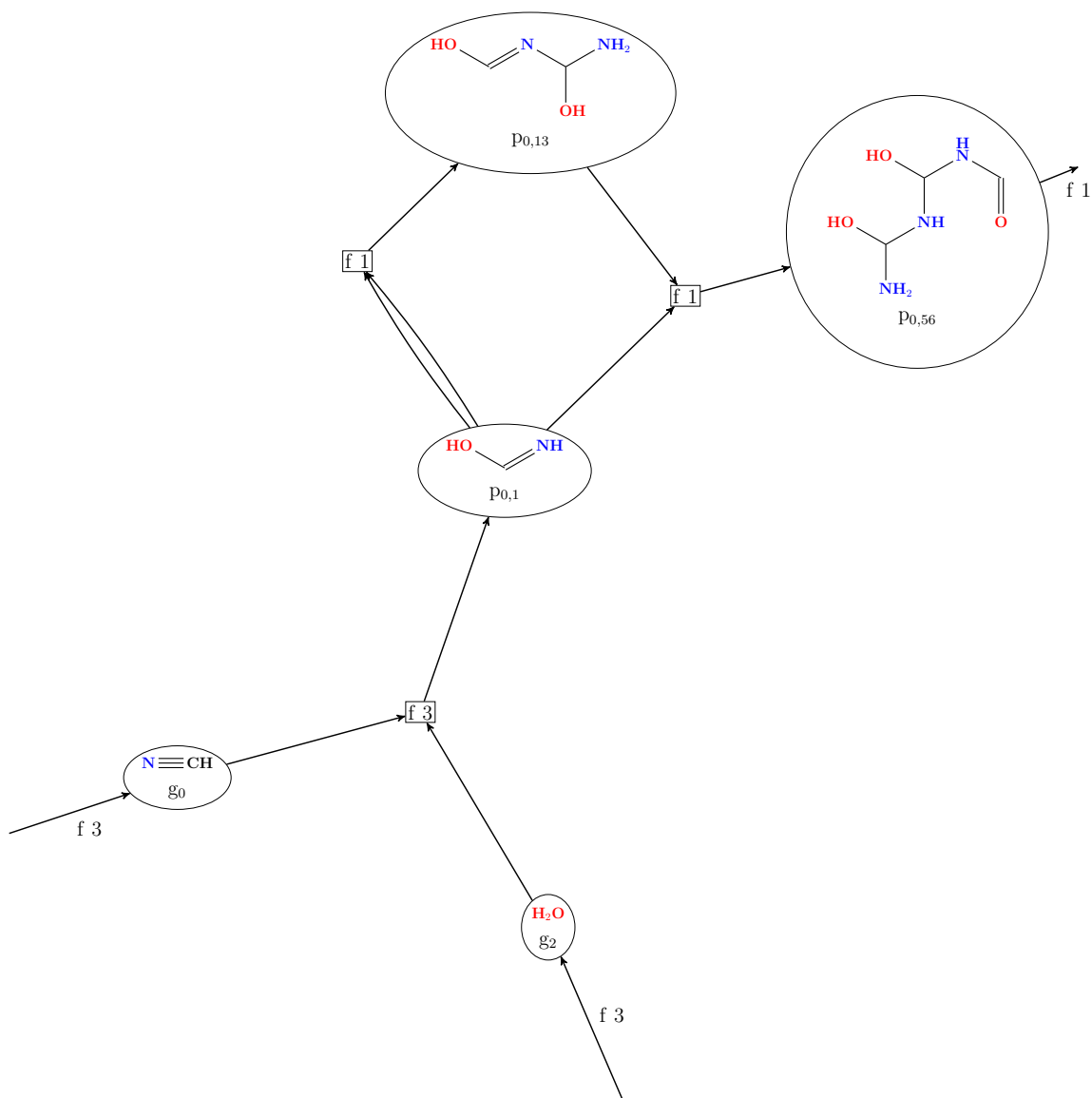
0.3.7 Solution 6

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	-6.000000	0
$g_{\{2\}}$	3	0	-5.068043	-6.000000	0
$p_{\{0,13\}}$	0	0	-21.240635	1.000000	65
$p_{\{0,1\}}$	0	0	-10.610080	1.000000	1
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/068_dg_0_11100_f_0_6_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	-6.0	-66850.110233	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	0
$p_{0,1}$	0	0	-27856.761341	1.0	-19124.913898	1
$p_{0,13}$	0	0	-55767.279594	1.0	-47035.432152	65
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-59.164398	-59.164398
30	$p_{0,1}, p_{0,1},$	$p_{0,13},$	1	-56.251251	-56.251251
263	$p_{0,1}, p_{0,13},$	$p_{0,56},$	1	-68.812567	-68.812567
Sum					-184.228216

$$|E| = 5$$

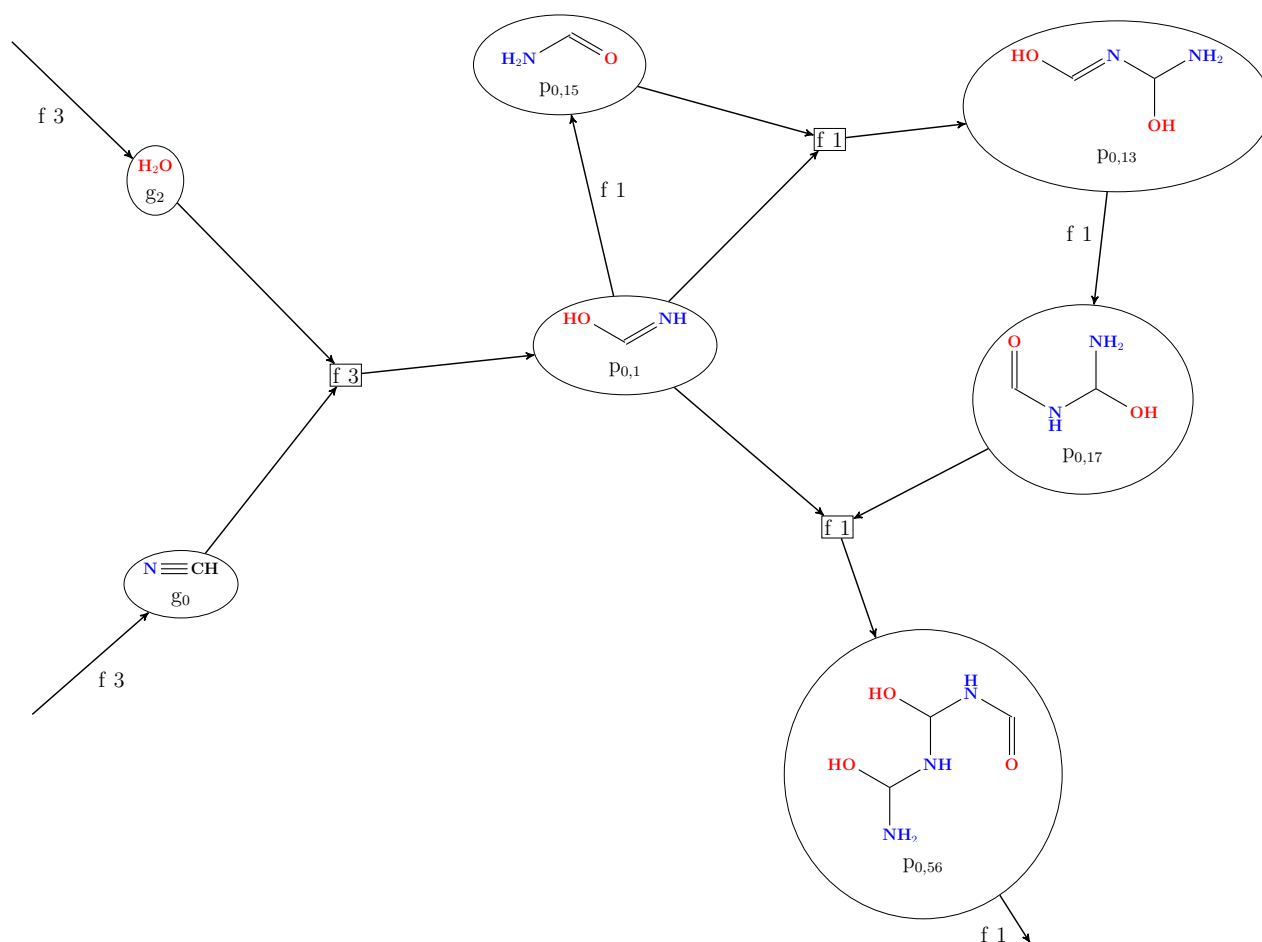
0.3.8 Solution 7

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	-6.000000	0
$g_{\{2\}}$	3	0	-5.068043	-6.000000	0
$p_{\{0,13\}}$	0	0	-21.240635	1.000000	64
$p_{\{0,15\}}$	0	0	-10.625174	-5.666593	62
$p_{\{0,17\}}$	0	0	-21.248887	1.000000	65
$p_{\{0,1\}}$	0	0	-10.610080	1.000000	1
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/074_dg_0_11100_f_0_7_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	-6.0	-66850.110233	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	0
$p_{0,1}$	0	0	-27856.761341	1.0	-19124.913898	1
$p_{0,13}$	0	0	-55767.279594	1.0	-47035.432152	64
$p_{0,15}$	0	0	-27896.389963	-5.666593	-77376.218305	62
$p_{0,17}$	0	0	-55788.944315	1.0	-47057.096872	65
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-59.164398	-59.164398
36	$p_{0,1},$	$p_{0,15},$	1	-56.257364	-56.257364
192	$p_{0,1}, p_{0,15},$	$p_{0,13},$	1	0.006113	0.006113
196	$p_{0,1}, p_{0,17},$	$p_{0,56},$	1	-47.147847	-47.147847
250	$p_{0,13},$	$p_{0,17},$	1	-21.664721	-21.664721
Sum					-184.228216

$|E| = 7$

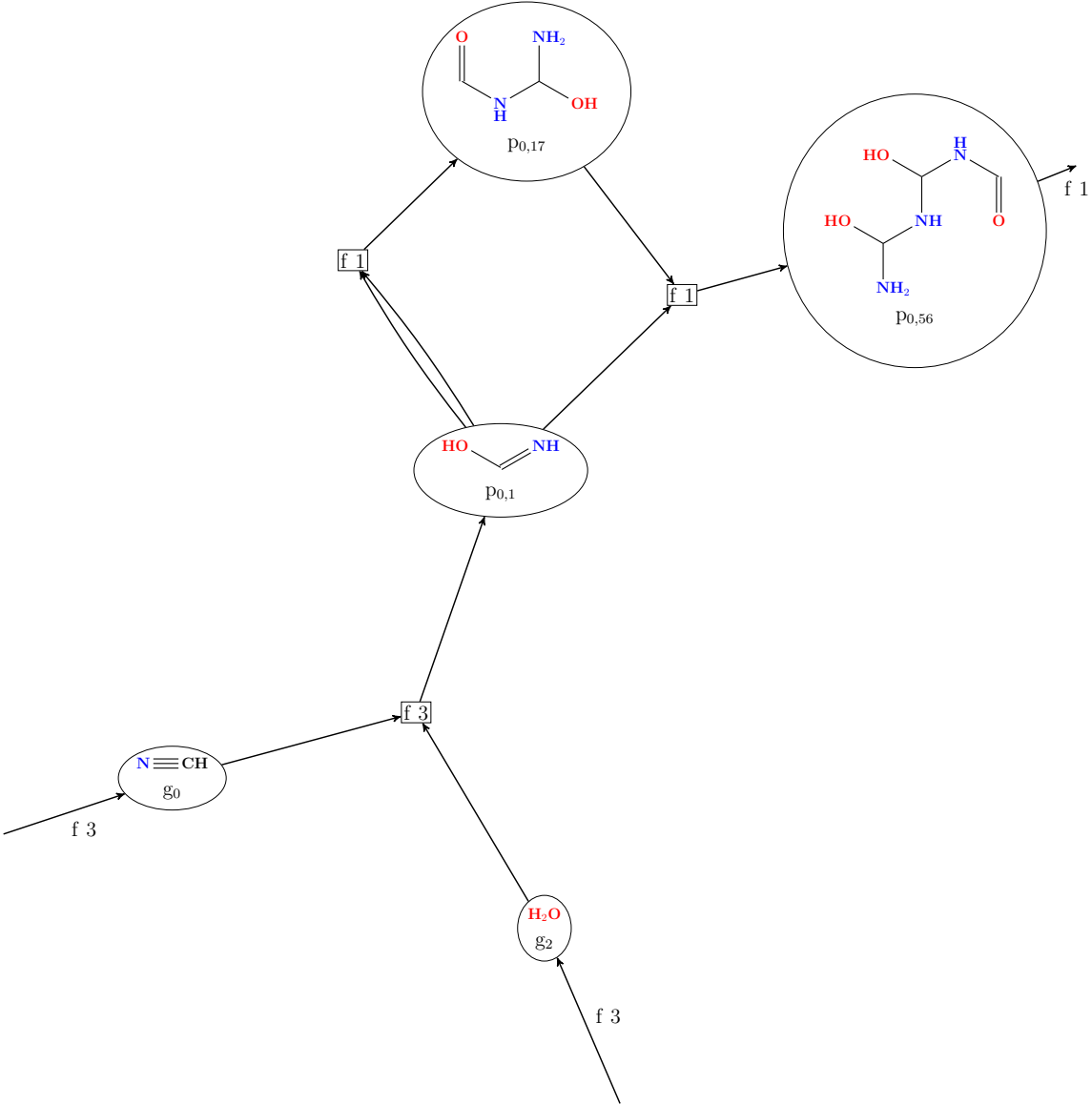
0.3.9 Solution 8

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	1.000000	0
$g_{\{2\}}$	3	0	-5.068043	-6.000000	20
$p_{\{0,17\}}$	0	0	-21.248844	1.000000	43
$p_{\{0,1\}}$	0	0	-10.610080	1.000000	21
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/080_dg_0_11100_f_0_8_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	1.0	-5727.178135	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	20
$p_{0,1}$	0	0	-27856.761341	1.0	-19124.913898	21
$p_{0,17}$	0	0	-55788.832737	1.0	-47056.985295	43
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-76.624769	-76.624769
40	$p_{0,1}, p_{0,1},$	$p_{0,17},$	1	-77.804394	-77.804394
196	$p_{0,1}, p_{0,17},$	$p_{0,56},$	1	-47.259424	-47.259424
Sum					-201.688588

$|E| = 5$

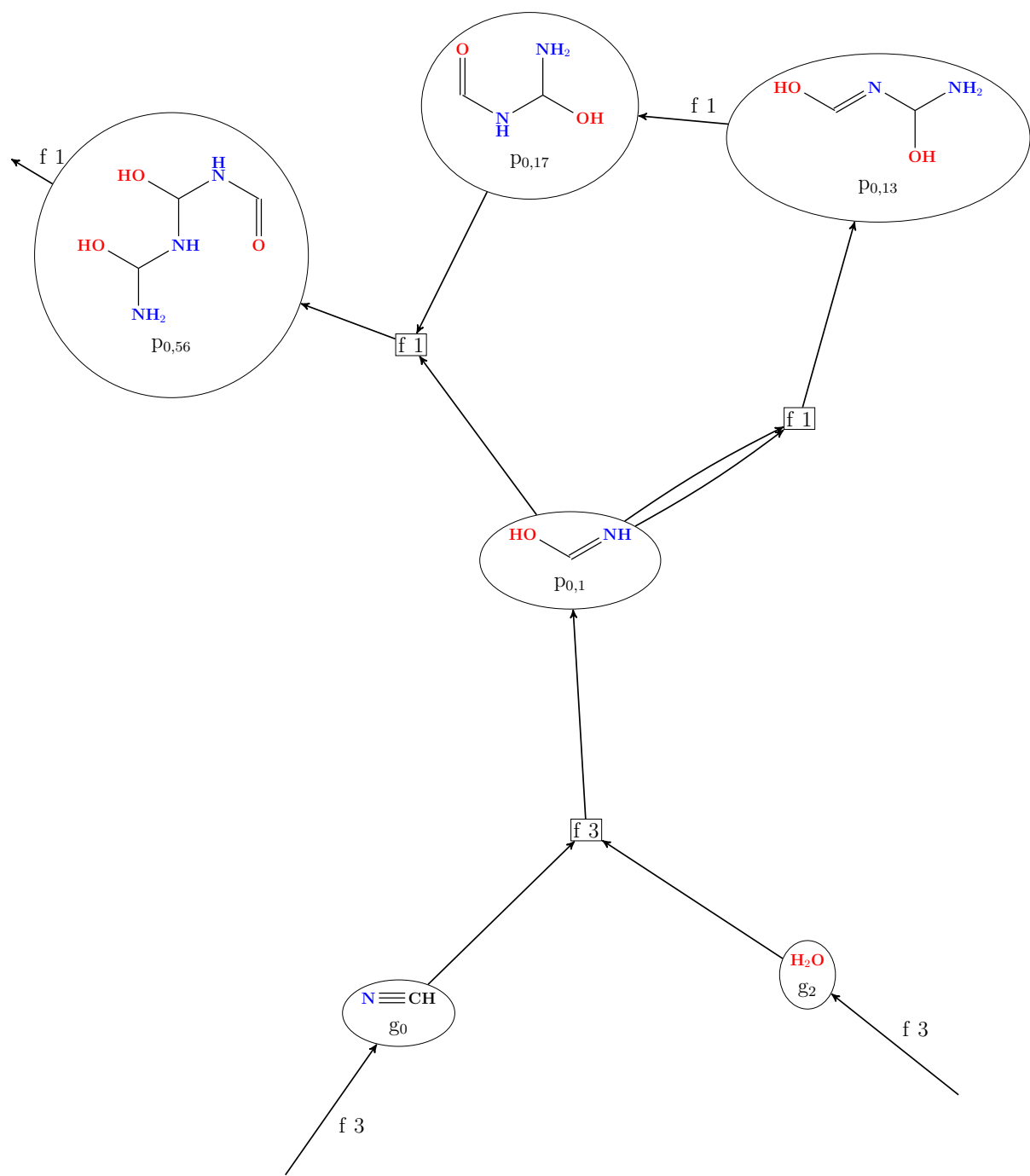
0.3.10 Solution 9

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
g_{0}	3	0	-5.507152	-6.000000	0
g_{2}	3	0	-5.068043	-6.000000	0
p_{0,13}	0	0	-21.240635	1.000000	64
p_{0,17}	0	0	-21.248844	1.000000	65
p_{0,1}	0	0	-10.610080	1.000000	1
p_{0,56}	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/086_dg_0_11100_f_0_9_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	-6.0	-66850.110233	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	0
$p_{0,1}$	0	0	-27856.761341	1.0	-19124.913898	1
$p_{0,13}$	0	0	-55767.279594	1.0	-47035.432152	64
$p_{0,17}$	0	0	-55788.832737	1.0	-47056.985295	65
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-59.164398	-59.164398
30	$p_{0,1}, p_{0,1},$	$p_{0,13},$	1	-56.251251	-56.251251
196	$p_{0,1}, p_{0,17},$	$p_{0,56},$	1	-47.259424	-47.259424
250	$p_{0,13},$	$p_{0,17},$	1	-21.553143	-21.553143
Sum					-184.228216

$|E| = 6$

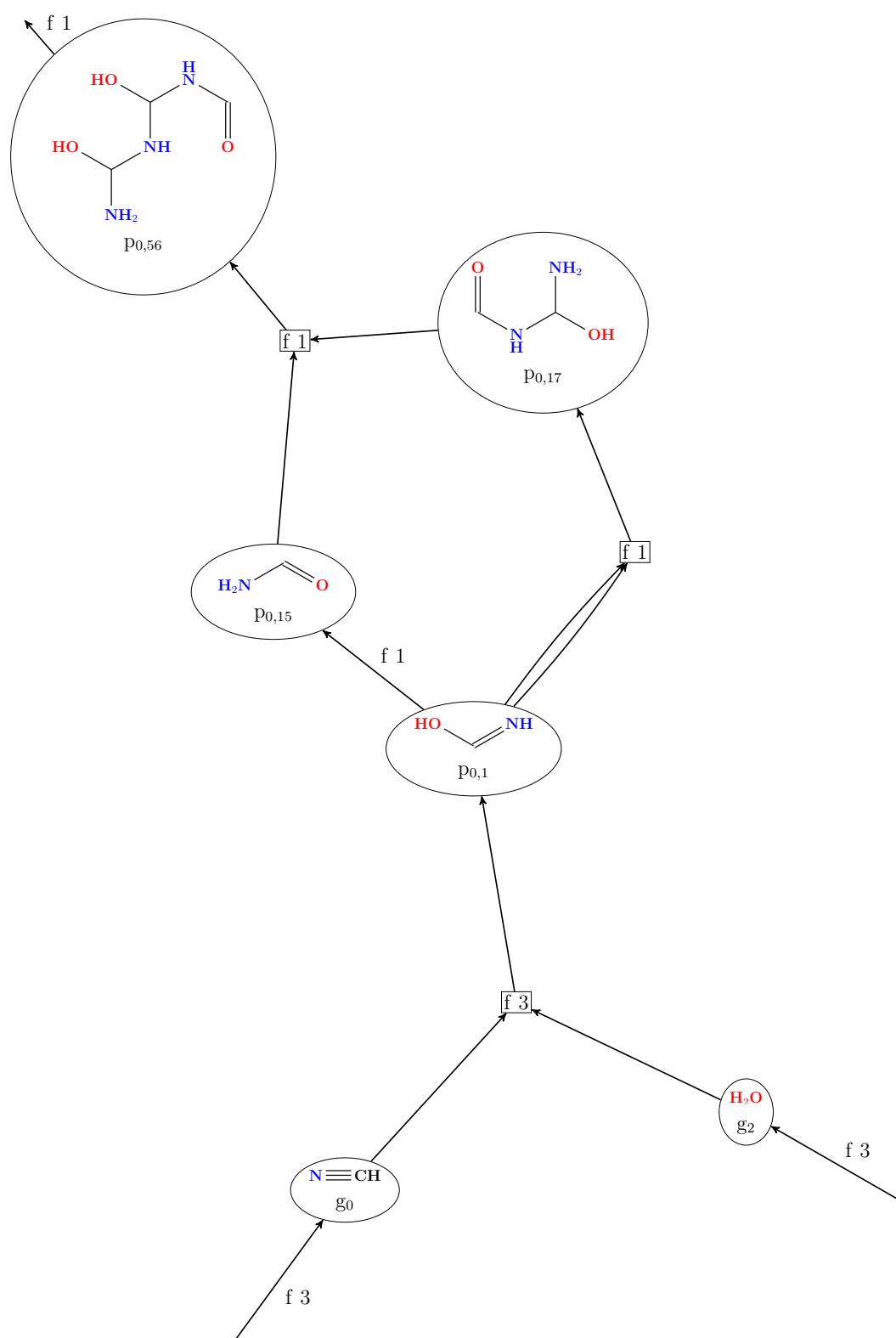
0.3.11 Solution 10

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	-6.000000	0
$g_{\{2\}}$	3	0	-5.068043	-6.000000	0
$p_{\{0,15\}}$	0	0	-10.625195	-1.994599	55
$p_{\{0,17\}}$	0	0	-21.248887	1.000000	11
$p_{\{0,1\}}$	0	0	-10.610101	-6.000000	1
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/092_dg_0_11100_f_0_10_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	-6.0	-66850.110233	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	0
$p_{0,1}$	0	0	-27856.817054	-6.0	-80247.90171	1
$p_{0,15}$	0	0	-27896.445756	-1.994599	-45312.980528	55
$p_{0,17}$	0	0	-55788.944315	1.0	-47057.096872	11
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-76.680483	-76.680483
36	$p_{0,1},$	$p_{0,15},$	1	-29.637874	-29.637874
40	$p_{0,1}, p_{0,1},$	$p_{0,17},$	1	-42.883802	-42.883802
181	$p_{0,15}, p_{0,17},$	$p_{0,56},$	1	0.006113	0.006113
Sum					-149.196046

$|E| = 6$

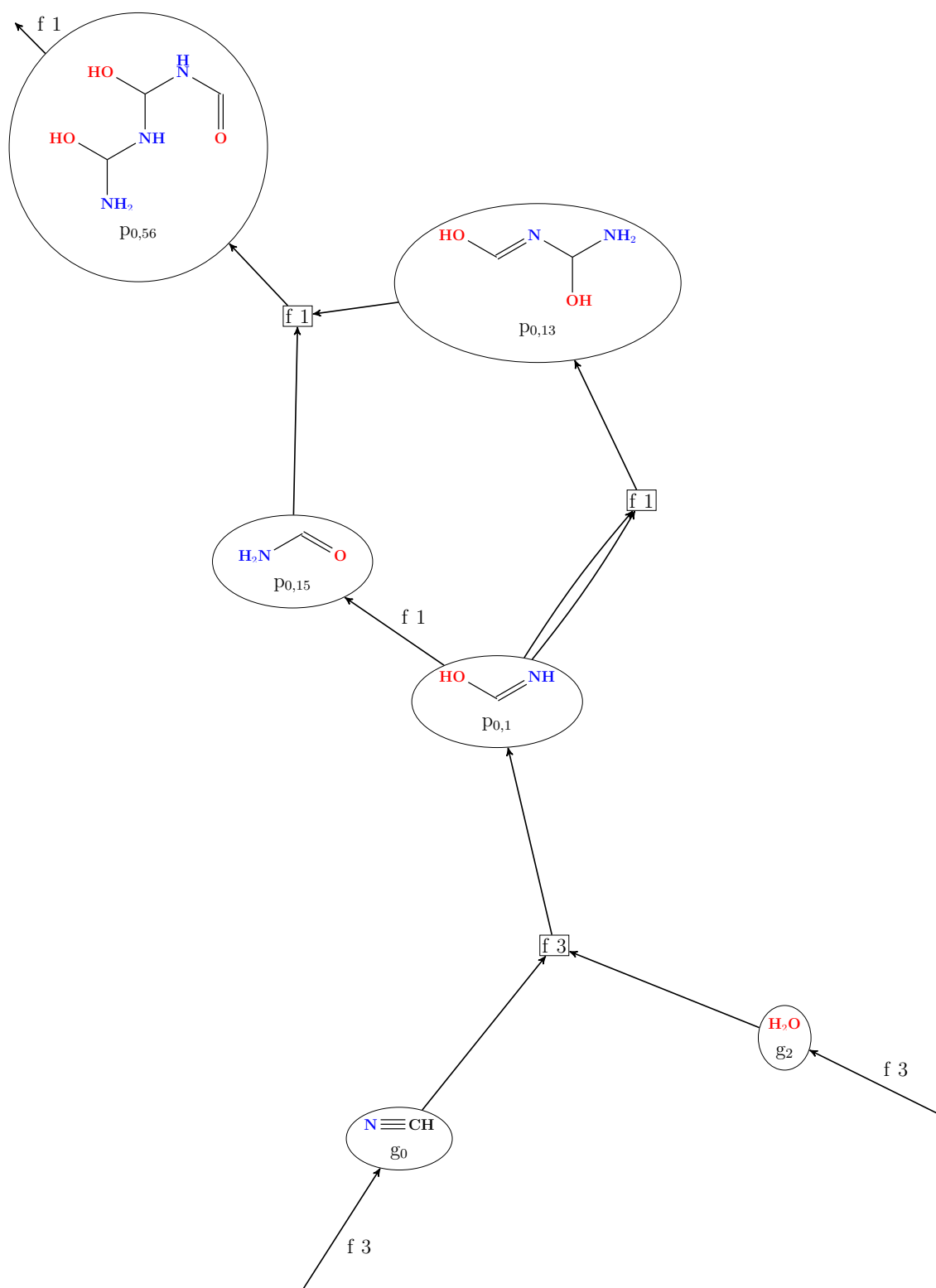
0.3.12 Solution 11

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	-6.000000	0
$g_{\{2\}}$	3	0	-5.068043	-6.000000	0
$p_{\{0,13\}}$	0	0	-21.240678	-6.000000	64
$p_{\{0,15\}}$	0	0	-10.625195	1.000000	2
$p_{\{0,1\}}$	0	0	-10.610101	1.000000	1
$p_{\{0,56\}}$	0	1	-31.869324	-1.364559	67

Filtered Graph



File: out/098_dg_0_11100_f_0_11_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	-6.0	-66850.110233	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	0
$p_{0,1}$	0	0	-27856.817054	1.0	-19124.969612	1
$p_{0,13}$	0	0	-55767.391129	-6.0	-108158.475784	64
$p_{0,15}$	0	0	-27896.445756	1.0	-19164.598313	2
$p_{0,56}$	0	1	-83672.898792	-1.364559	-95588.0241	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-59.220111	-59.220111
30	$p_{0,1}, p_{0,1},$	$p_{0,13},$	1	-73.71173	-73.71173
36	$p_{0,1},$	$p_{0,15},$	1	-39.628701	-39.628701
169	$p_{0,13}, p_{0,15},$	$p_{0,56},$	1	0.006113	0.006113
Sum					-172.55443

$|E| = 6$

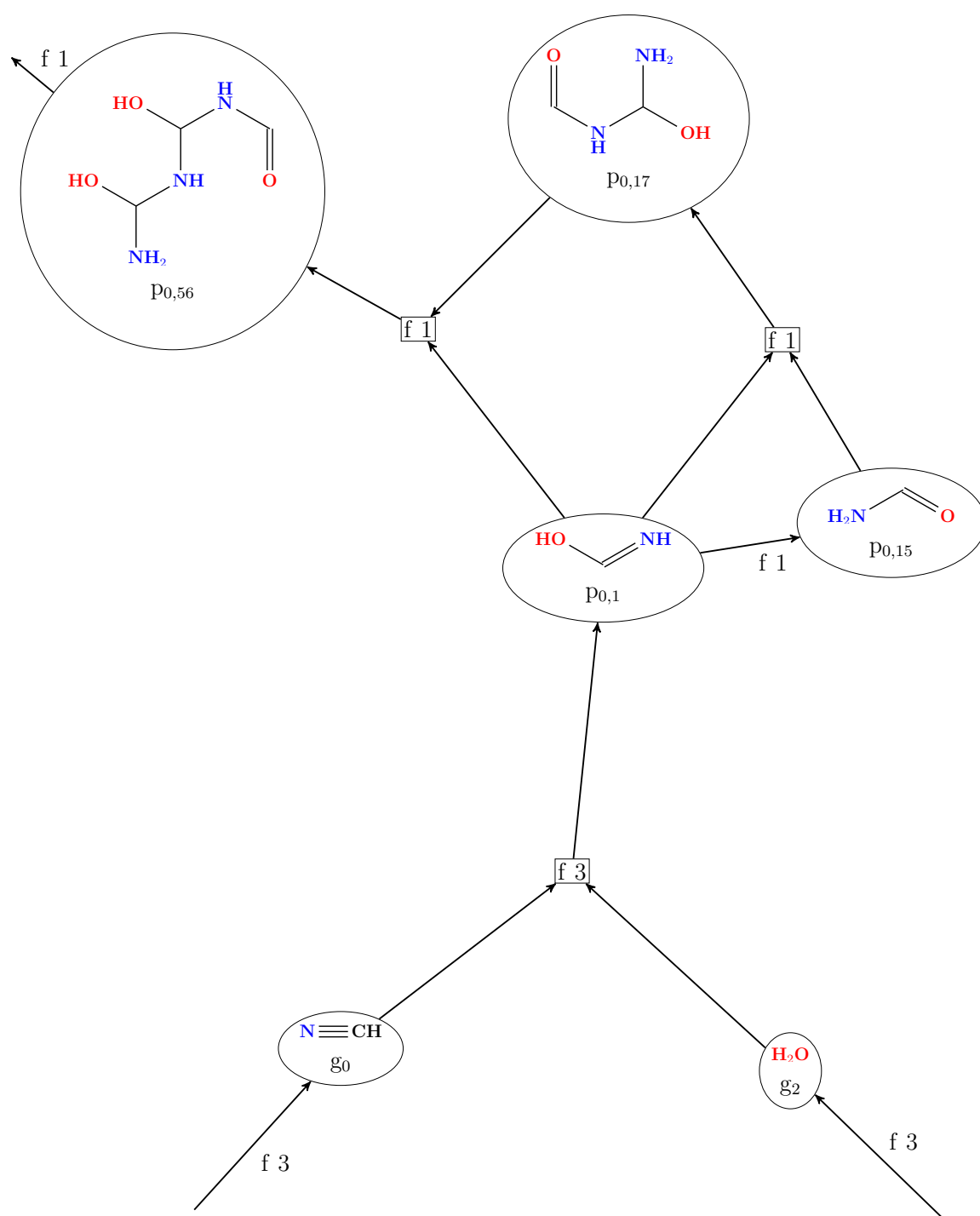
0.3.13 Solution 12

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	-6.000000	0
$g_{\{2\}}$	3	0	-5.068043	-6.000000	20
$p_{\{0,15\}}$	0	0	-10.625195	1.000000	22
$p_{\{0,17\}}$	0	0	-21.248844	1.000000	44
$p_{\{0,1\}}$	0	0	-10.610080	1.000000	21
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/104_dg_0_11100_f_0_12_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	-6.0	-66850.110233	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	20
$p_{0,1}$	0	0	-27856.761341	1.0	-19124.913898	21
$p_{0,15}$	0	0	-27896.445756	1.0	-19164.598313	22
$p_{0,17}$	0	0	-55788.832737	1.0	-47056.985295	44
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-59.164398	-59.164398
36	$p_{0,1},$	$p_{0,15},$	1	-39.684415	-39.684415
183	$p_{0,1}, p_{0,15},$	$p_{0,17},$	1	-38.119979	-38.119979
196	$p_{0,1}, p_{0,17},$	$p_{0,56},$	1	-47.259424	-47.259424
Sum					-184.228216

$|E| = 6$

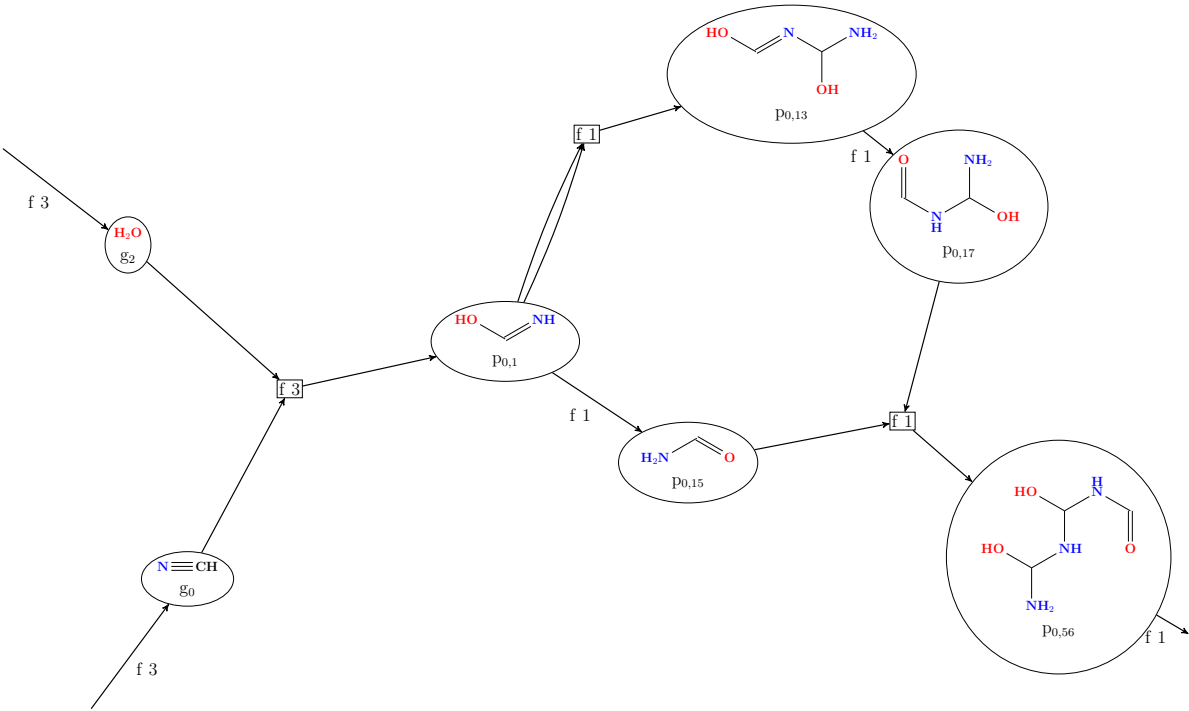
0.3.14 Solution 13

Overall Data

Objective value (non-integral): -0.0834906

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	1.000000	0
$g_{\{2\}}$	3	0	-5.068043	-6.000000	0
$p_{\{0,13\}}$	0	0	-21.240635	1.000000	3
$p_{\{0,15\}}$	0	0	-10.625174	1.000000	2
$p_{\{0,17\}}$	0	0	-21.248844	1.000000	64
$p_{\{0,1\}}$	0	0	-10.610101	1.000000	1
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/110_dg_0_11100_f_0_13_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	1.0	-5727.178135	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	0
$p_{0,1}$	0	0	-27856.817054	1.0	-19124.969612	1
$p_{0,13}$	0	0	-55767.279594	1.0	-47035.432152	3
$p_{0,15}$	0	0	-27896.389963	1.0	-19164.54252	2
$p_{0,17}$	0	0	-55788.832737	1.0	-47056.985295	64
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-76.680483	-76.680483
30	$p_{0,1}, p_{0,1},$	$p_{0,13},$	1	-56.139824	-56.139824
36	$p_{0,1},$	$p_{0,15},$	1	-39.572909	-39.572909
181	$p_{0,15}, p_{0,17},$	$p_{0,56},$	1	-7.630802	-7.630802
250	$p_{0,13},$	$p_{0,17},$	1	-21.553143	-21.553143
Sum					-201.577161

$|E| = 7$

0.3.15 Solution 14

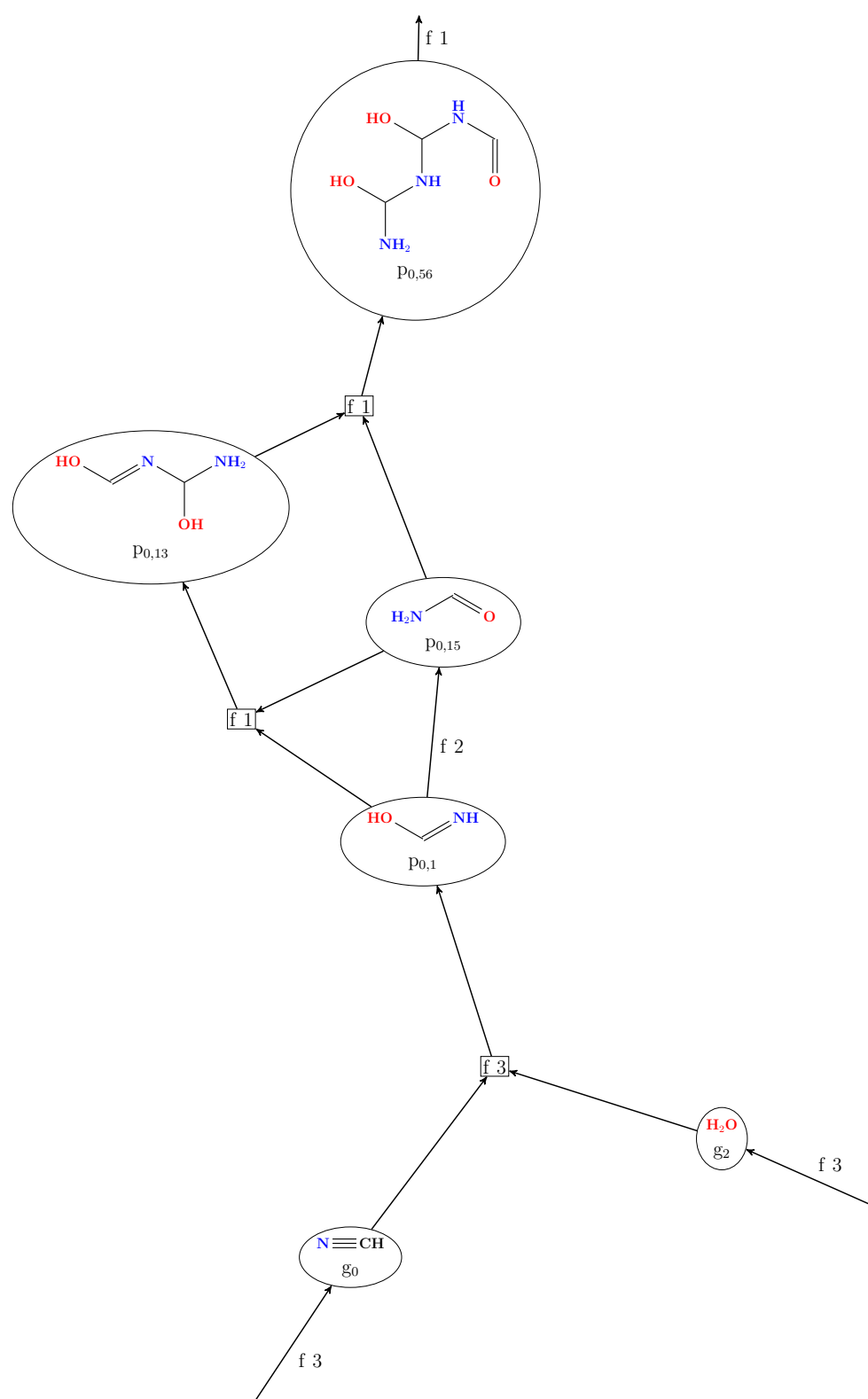
Overall Data

Objective value (non-integral): -0.0683968

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	1.000000	0
$g_{\{2\}}$	3	0	-5.068043	1.000000	0

p_{0,13}	0	0	-21.240678	-6.000000	64
p_{0,15}	0	0	-10.625174	1.000000	2
p_{0,1}	0	0	-10.610080	1.000000	1
p_{0,56}	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/116_dg_0_11100_f_0_14_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	1.0	-5727.178135	0
g_2	3	0	-13306.144961	1.0	-4574.297519	0
$p_{0,1}$	0	0	-27856.761341	1.0	-19124.913898	1
$p_{0,13}$	0	0	-55767.391129	-6.0	-108158.475784	64
$p_{0,15}$	0	0	-27896.389963	1.0	-19164.54252	2
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-94.085141	-94.085141
36	$p_{0,1},$	$p_{0,15},$	2	-39.628622	-39.628622
169	$p_{0,13}, p_{0,15},$	$p_{0,56},$	1	-11.612039	-11.612039
192	$p_{0,1}, p_{0,15},$	$p_{0,13},$	1	-34.194535	-34.194535
Sum					-179.520337

$|E| = 7$

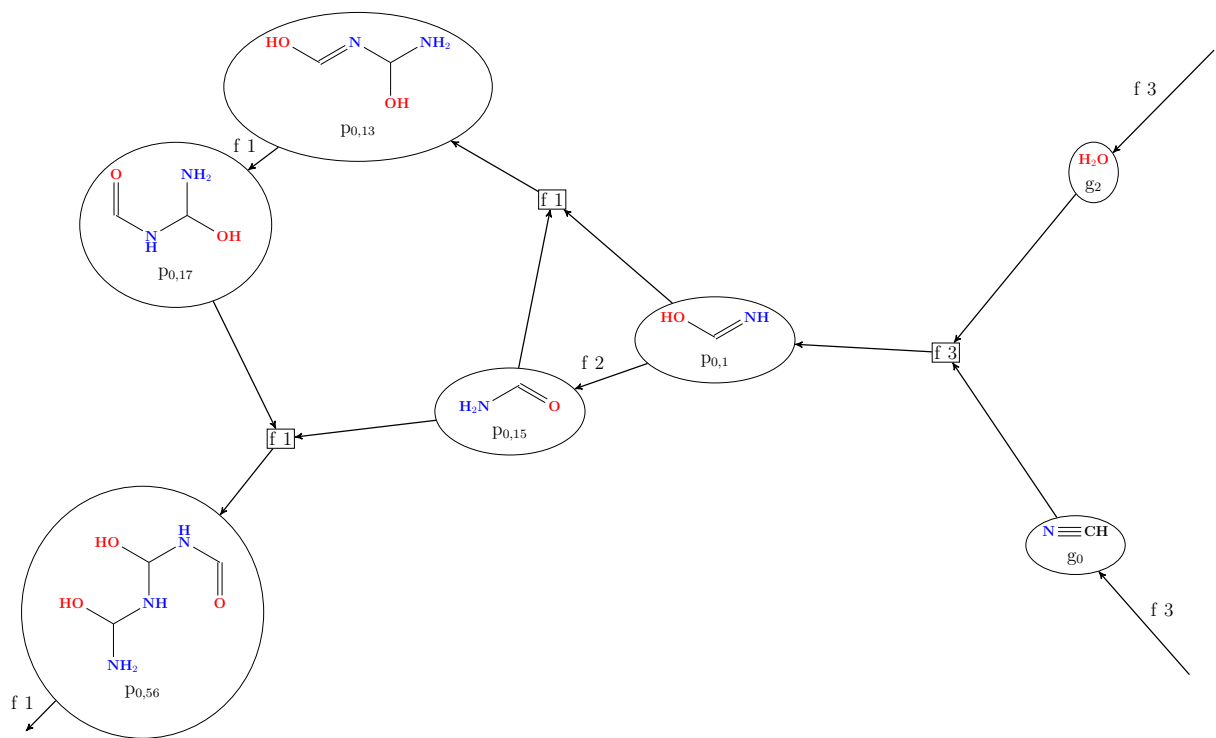
0.3.16 Solution 15

Overall Data

Objective value (non-integral): -0.0683968

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	-6.000000	0
$g_{\{2\}}$	3	0	-5.068043	-6.000000	19
$p_{\{0,13\}}$	0	0	-21.240635	1.000000	43
$p_{\{0,15\}}$	0	0	-10.625174	1.000000	22
$p_{\{0,17\}}$	0	0	-21.248887	-2.014516	44
$p_{\{0,1\}}$	0	0	-10.610101	1.000000	20
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/122_dg_0_11100_f_0_15_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	-6.0	-66850.110233	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	19
$p_{0,1}$	0	0	-27856.817054	1.0	-19124.969612	20
$p_{0,13}$	0	0	-55767.279594	1.0	-47035.432152	43
$p_{0,15}$	0	0	-27896.389963	1.0	-19164.54252	22
$p_{0,17}$	0	0	-55788.944315	-2.014516	-73379.391721	44
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-59.220111	-59.220111
36	$p_{0,1},$	$p_{0,15},$	2	-39.572909	-39.572909
181	$p_{0,15}, p_{0,17},$	$p_{0,56},$	1	0.0	0.0
192	$p_{0,1}, p_{0,15},$	$p_{0,13},$	1	-16.566916	-16.566916
250	$p_{0,13},$	$p_{0,17},$	1	-29.183945	-29.183945
Sum					-144.543881

$|E| = 8$

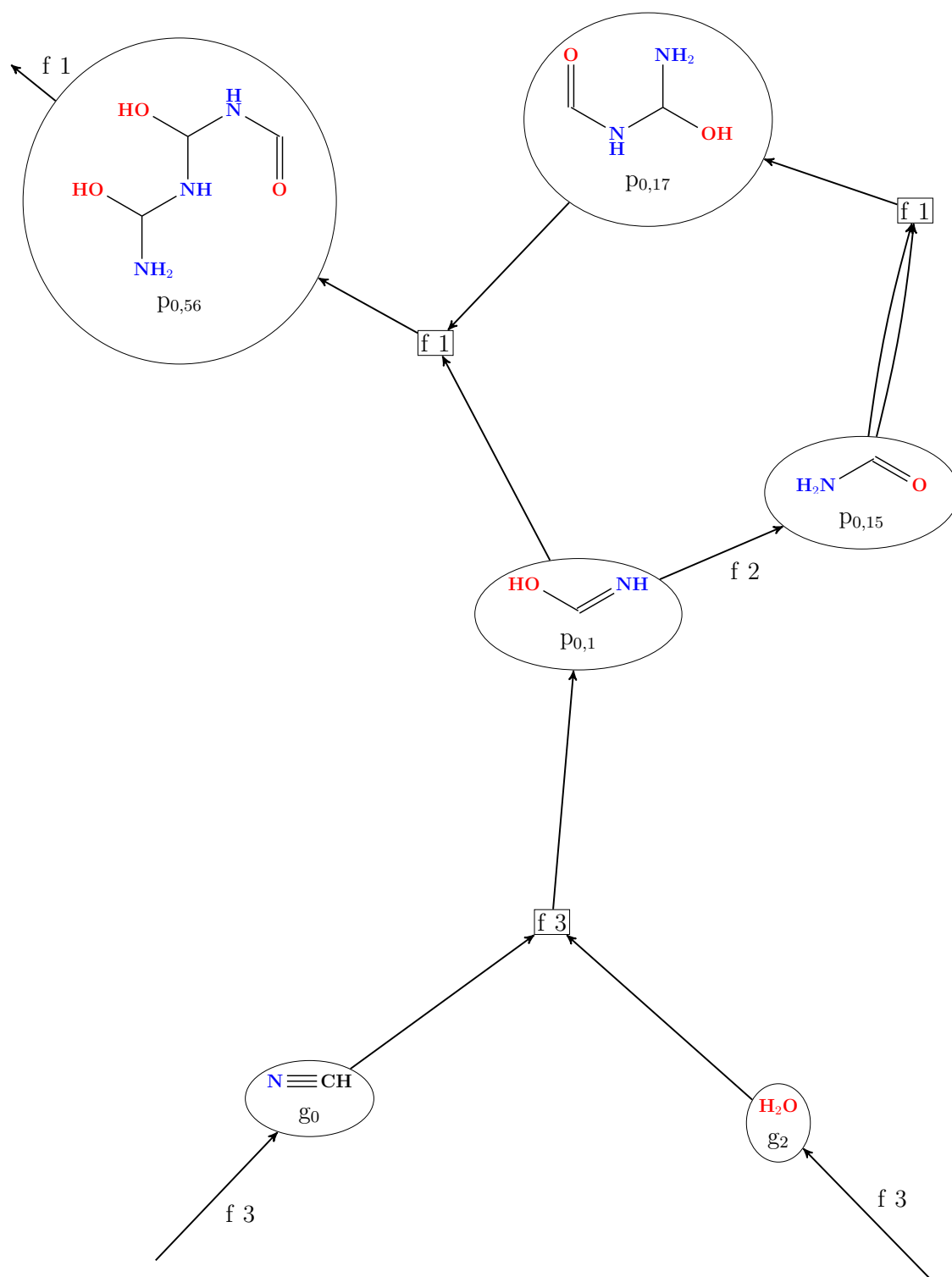
0.3.17 Solution 16

Overall Data

Objective value (non-integral): -0.0683968
Vertex/Graph In Out G logK t_order

$g_{\{0\}}$	3	0	-5.507152	1.000000	0
$g_{\{2\}}$	3	0	-5.068043	1.000000	0
$p_{\{0,15\}}$	0	0	-10.625174	1.000000	22
$p_{\{0,17\}}$	0	0	-21.248844	0.417541	45
$p_{\{0,1\}}$	0	0	-10.610080	1.000000	21
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/128_dg_0_11100_f_0_16_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	1.0	-5727.178135	0
g_2	3	0	-13306.144961	1.0	-4574.297519	0
$p_{0,1}$	0	0	-27856.761341	1.0	-19124.913898	21
$p_{0,15}$	0	0	-27896.389963	1.0	-19164.54252	22
$p_{0,17}$	0	0	-55788.832737	0.417541	-52142.928035	45
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-94.085141	-94.085141
36	$p_{0,1},$	$p_{0,15},$	2	-39.628622	-39.628622
180	$p_{0,15}, p_{0,15},$	$p_{0,17},$	1	0.0	0.0
196	$p_{0,1}, p_{0,17},$	$p_{0,56},$	1	-45.806574	-45.806574
Sum					-179.520337

$|E| = 7$

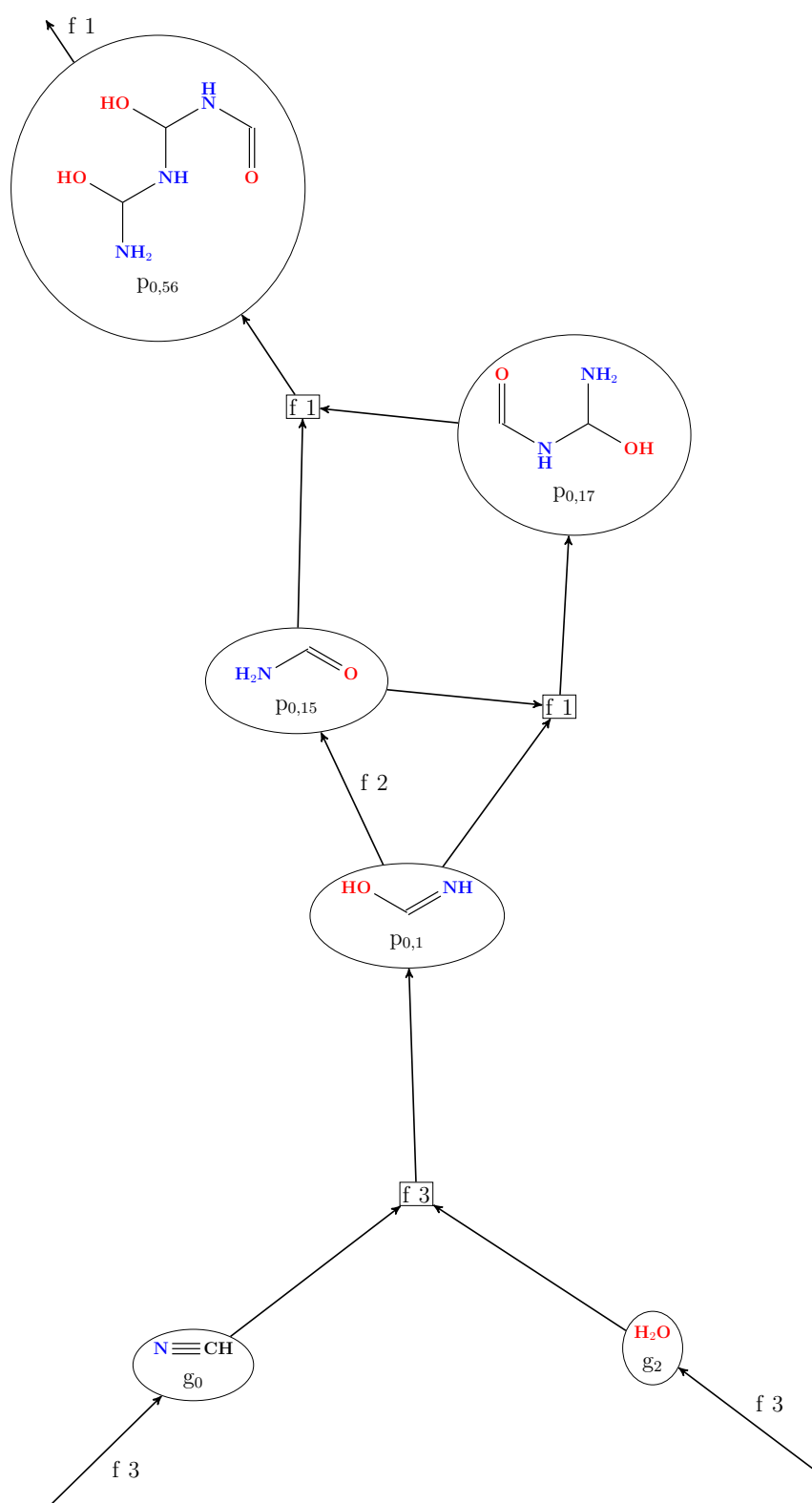
0.3.18 Solution 17

Overall Data

Objective value (non-integral): -0.0683968

Vertex/Graph	In	Out	G	logK	t_order
$g_{\{0\}}$	3	0	-5.507152	-6.000000	0
$g_{\{2\}}$	3	0	-5.068043	-6.000000	0
$p_{\{0,15\}}$	0	0	-10.625195	1.000000	32
$p_{\{0,17\}}$	0	0	-21.248887	-1.994599	34
$p_{\{0,1\}}$	0	0	-10.610101	1.000000	1
$p_{\{0,56\}}$	0	1	-31.869324	-6.000000	67

Filtered Graph



File: out/134_dg_0_11100_f_0_17_filt

Vertex	InFlow	OutFlow	$x_v^{\Delta G^0}$	x_v^K	$x_v^{\Delta G}$	t_v
g_0	3	0	-14459.025578	-6.0	-66850.110233	0
g_2	3	0	-13306.144961	-6.0	-65697.229617	0
$p_{0,1}$	0	0	-27856.817054	1.0	-19124.969612	1
$p_{0,15}$	0	0	-27896.445756	1.0	-19164.598313	32
$p_{0,17}$	0	0	-55788.944315	-1.994599	-73205.479087	34
$p_{0,56}$	0	1	-83672.898792	-6.0	-136063.983447	67

Hyperedge	Source	Target	Flow	$x_e^{\Delta G}$	$\bar{x}_e^{\Delta G}$
6	$g_0, g_2,$	$p_{0,1},$	3	-59.220111	-59.220111
36	$p_{0,1},$	$p_{0,15},$	2	-39.628701	-39.628701
181	$p_{0,15}, p_{0,17},$	$p_{0,56},$	1	0.006113	0.006113
183	$p_{0,1}, p_{0,15},$	$p_{0,17},$	1	-45.645388	-45.645388
Sum					-144.488088

$|E| = 7$