

### Stream Summary

	Units	2	3
Description			
From		B1	B2
To		B2	B3
Stream Class		CONVEN	CONVEN
Maximum Relative Error			
Cost Flow	\$/hr		
MIXED Substream			
Phase			Vapor Phase
Temperature	C	0	0
Pressure	bar	32.7	32.3
Molar Vapor Fraction		0.998061	1
Molar Liquid Fraction		0.00193905	0
Molar Solid Fraction		0	0
Mass Vapor Fraction		0.998274	1
Mass Liquid Fraction		0.00172556	0
Mass Solid Fraction		0	0
Molar Enthalpy	cal/mol	-38236.7	-38176.9
Mass Enthalpy	cal/gm	-1890	-1886.65
Molar Entropy	cal/mol-K	-5.51452	-5.41653
Mass Entropy	cal/gm-K	-0.272578	-0.267677
Molar Density	mol/cc	0.00149564	0.00147395
Mass Density	gm/cc	0.0302583	0.0298259
Enthalpy Flow	cal/sec	-2.35515E+08	-2.34692E+08
Average MW		20.231	20.2353
Mole Flows	kmol/hr	22173.9	22130.9
H2	kmol/hr	12120.2	12120.2
CO	kmol/hr	294.913	294.913
N2	kmol/hr	709.564	709.564
CH4	kmol/hr	2.21739	2.21739
AR	kmol/hr	128.609	128.608
H2S	kmol/hr	31.0434	31.0428
CO2	kmol/hr	8836.29	8836.29

### Stream Summary

	Units	4	5
Description			
From		B2	B3
To			B5
Stream Class		CONVEN	CONVEN
Maximum Relative Error			
Cost Flow	\$/hr		
MIXED Substream			
Phase		Liquid Phase	Vapor Phase
Temperature	C	0	-37.0569
Pressure	bar	32.3	32.2
Molar Vapor Fraction		0	1
Molar Liquid Fraction		1	0
Molar Solid Fraction		0	0
Mass Vapor Fraction		0	1
Mass Liquid Fraction		1	0
Mass Solid Fraction		0	0
Molar Enthalpy	cal/mol	-68480.7	-38518.6
Mass Enthalpy	cal/gm	-3803.72	-1905.02
Molar Entropy	cal/mol-K	-41.8328	-6.62641
Mass Entropy	cal/gm-K	-2.32358	-0.327723
Molar Density	mol/cc	0.0561705	0.0017515
Mass Density	gm/cc	1.01127	0.0354145
Enthalpy Flow	cal/sec	-817096	-2.36422E+08
Average MW		18.0036	20.2195
Mole Flows	kmol/hr	42.9543	22096.3
H2	kmol/hr	5.07685E-05	12120.2
CO	kmol/hr	4.78397E-07	294.913
N2	kmol/hr	1.38046E-06	709.564
CH4	kmol/hr	4.75823E-08	2.21739
AR	kmol/hr	8.30789E-06	128.608
H2S	kmol/hr	0.000665444	4.66166
CO2	kmol/hr	0.00394567	8836.07

### Stream Summary

	Units	7	CO2
Description			
From		B5	B4
To		B4	
Stream Class		CONVEN	CONVEN
Maximum Relative Error			
Cost Flow	\$/hr		
MIXED Substream			
Phase		Vapor Phase	Liquid Phase
Temperature	C	37.1148	29.2802
Pressure	bar	70	70.1
Molar Vapor Fraction		1	0
Molar Liquid Fraction		0	1
Molar Solid Fraction		0	0
Mass Vapor Fraction		1	0
Mass Liquid Fraction		0	1
Mass Solid Fraction		0	0
Molar Enthalpy	cal/mol	-37985.4	-95900.6
Mass Enthalpy	cal/gm	-1878.65	-2179.39
Molar Entropy	cal/mol-K	-6.13148	-13.382
Mass Entropy	cal/gm-K	-0.303245	-0.304113
Molar Density	mol/cc	0.0028086	0.0146017
Mass Density	gm/cc	0.0567887	0.642525
Enthalpy Flow	cal/sec	-2.33149E+08	-1.99461E+08
Average MW		20.2195	44.0035
Mole Flows	kmol/hr	22096.3	7487.52
H2	kmol/hr	12120.2	0.0334385
CO	kmol/hr	294.913	0.0534892
N2	kmol/hr	709.564	0.145402
CH4	kmol/hr	2.21739	0.00698648
AR	kmol/hr	128.608	0.199152
H2S	kmol/hr	4.66166	4.19839
CO2	kmol/hr	8836.07	7482.88

### Stream Summary

	Units	FEED	H2S
Description			
From			B3
To		B1	
Stream Class		CONVEN	CONVEN
Maximum Relative Error			
Cost Flow	\$/hr		
MIXED Substream			
Phase			Liquid Phase
Temperature	C	37	50.9743
Pressure	bar	32	32.3
Molar Vapor Fraction		0.999935	0
Molar Liquid Fraction		6.4751E-05	1
Molar Solid Fraction		0	0
Mass Vapor Fraction		0.999942	0
Mass Liquid Fraction		5.76637E-05	1
Mass Solid Fraction		0	0
Molar Enthalpy	cal/mol	-37912.4	-16617.5
Mass Enthalpy	cal/gm	-1873.97	-548.371
Molar Entropy	cal/mol-K	-4.36072	-12.745
Mass Entropy	cal/gm-K	-0.215546	-0.420582
Molar Density	mol/cc	0.0012648	0.0245626
Mass Density	gm/cc	0.0255883	0.744327
Enthalpy Flow	cal/sec	-2.33518E+08	-159942
Average MW		20.231	30.3033
Mole Flows	kmol/hr	22173.9	34.6497
H2	kmol/hr	12120.2	1.96827E-40
CO	kmol/hr	294.913	2.16225E-31
N2	kmol/hr	709.564	2.25133E-31
CH4	kmol/hr	2.21739	1.35412E-24
AR	kmol/hr	128.609	1.90997E-25
H2S	kmol/hr	31.0434	26.3811
CO2	kmol/hr	8836.29	0.218339

### Stream Summary

	Units	SYNGAS
Description		
From		B4
To		
Stream Class		CONVEN
Maximum Relative Error		
Cost Flow	\$/hr	
MIXED Substream		
Phase		Vapor Phase
Temperature	C	-60.1947
Pressure	bar	69.9
Molar Vapor Fraction		1
Molar Liquid Fraction		0
Molar Solid Fraction		0
Mass Vapor Fraction		1
Mass Liquid Fraction		0
Mass Solid Fraction		0
Molar Enthalpy	cal/mol	-9882.95
Mass Enthalpy	cal/gm	-1230.84
Molar Entropy	cal/mol-K	-9.20743
Mass Entropy	cal/gm-K	-1.14671
Molar Density	mol/cc	0.00392215
Mass Density	gm/cc	0.0314926
Enthalpy Flow	cal/sec	-4.01049E+07
Average MW		8.02941
Mole Flows	kmol/hr	14608.8
H2	kmol/hr	12120.2
CO	kmol/hr	294.859
N2	kmol/hr	709.419
CH4	kmol/hr	2.2104
AR	kmol/hr	128.409
H2S	kmol/hr	0.46327
CO2	kmol/hr	1353.19

### Stream Summary

	Units	2	3
NH3	kmol/hr	4.43478	3.8124
H2O	kmol/hr	46.5651	4.23785
Mole Fractions			
H2		0.5466	0.547661
CO		0.0133	0.0133258
N2		0.032	0.0320621
CH4		0.0001	0.000100194
AR		0.0058	0.00581126
H2S		0.0014	0.00140269
CO2		0.3985	0.399273
NH3		0.0002	0.000172266
H2O		0.0021	0.00019149
Mass Flows			
	kg/hr	448600	447827
H2	kg/hr	24433	24433
CO	kg/hr	8260.62	8260.62
N2	kg/hr	19877.4	19877.4
CH4	kg/hr	35.573	35.573
AR	kg/hr	5137.65	5137.65
H2S	kg/hr	1058.02	1058
CO2	kg/hr	388883	388883
NH3	kg/hr	75.5267	64.9274
H2O	kg/hr	838.884	76.346
Mass Fractions			
H2		0.0544649	0.054559
CO		0.0184142	0.018446
N2		0.0443098	0.0443863
CH4		7.92979E-05	7.94348E-05
AR		0.0114526	0.0114724
H2S		0.00235849	0.00236251
CO2		0.866882	0.868379
NH3		0.000168361	0.000144983
H2O		0.00187	0.000170481

### Stream Summary

	Units	4	5
NH3	kmol/hr	0.622373	1.30067E-10
H2O	kmol/hr	42.3273	2.96254E-22
Mole Fractions			
H2		1.18192E-06	0.54852
CO		1.11373E-08	0.0133467
N2		3.21378E-08	0.0321124
CH4		1.10774E-09	0.000100351
AR		1.93412E-07	0.00582037
H2S		1.54919E-05	0.000210971
CO2		9.18574E-05	0.39989
NH3		0.0144892	5.88637E-15
H2O		0.985402	1.34074E-26
Mass Flows			
	kg/hr	773.334	446777
H2	kg/hr	0.000102343	24433
CO	kg/hr	1.34001E-05	8260.62
N2	kg/hr	3.86714E-05	19877.4
CH4	kg/hr	7.63352E-07	35.573
AR	kg/hr	0.000331884	5137.65
H2S	kg/hr	0.0226796	158.878
CO2	kg/hr	0.173648	388874
NH3	kg/hr	10.5994	2.21511E-09
H2O	kg/hr	762.538	5.3371E-21
Mass Fractions			
H2		1.3234E-07	0.0546872
CO		1.73277E-08	0.0184894
N2		5.00061E-08	0.0444906
CH4		9.87091E-10	7.96215E-05
AR		4.29159E-07	0.0114994
H2S		2.9327E-05	0.00035561
CO2		0.000224545	0.870398
NH3		0.013706	4.95799E-15
H2O		0.986039	1.19458E-26

### Stream Summary

	Units	7	CO2
NH3	kmol/hr	1.30067E-10	1.2919E-10
H2O	kmol/hr	2.96254E-22	0
Mole Fractions			
H2		0.54852	4.4659E-06
CO		0.0133467	7.14378E-06
N2		0.0321124	1.94193E-05
CH4		0.000100351	9.33083E-07
AR		0.00582037	2.65979E-05
H2S		0.000210971	0.000560719
CO2		0.39989	0.999381
NH3		5.88637E-15	1.7254E-14
H2O		1.34074E-26	0
Mass Flows			
	kg/hr	446777	329477
H2	kg/hr	24433	0.067408
CO	kg/hr	8260.62	1.49825
N2	kg/hr	19877.4	4.07323
CH4	kg/hr	35.573	0.112082
AR	kg/hr	5137.65	7.95573
H2S	kg/hr	158.878	143.089
CO2	kg/hr	388874	329320
NH3	kg/hr	2.21511E-09	2.20017E-09
H2O	kg/hr	5.3371E-21	0
Mass Fractions			
H2		0.0546872	2.04591E-07
CO		0.0184894	4.54737E-06
N2		0.0444906	1.23627E-05
CH4		7.96215E-05	3.40183E-07
AR		0.0114994	2.41466E-05
H2S		0.00035561	0.000434292
CO2		0.870398	0.999524
NH3		4.95799E-15	6.67778E-15
H2O		1.19458E-26	0



### Stream Summary

	Units	FEED	H2S
NH3	kmol/hr	4.43478	3.8124
H2O	kmol/hr	46.5651	4.23785
Mole Fractions			
H2		0.5466	5.68049E-42
CO		0.0133	6.24031E-33
N2		0.032	6.4974E-33
CH4		0.0001	3.90801E-26
AR		0.0058	5.51222E-27
H2S		0.0014	0.761366
CO2		0.3985	0.00630132
NH3		0.0002	0.110027
H2O		0.0021	0.122306
Mass Flows			
	kg/hr	448600	1050
H2	kg/hr	24433	3.9678E-40
CO	kg/hr	8260.62	6.05654E-30
N2	kg/hr	19877.4	6.30675E-30
CH4	kg/hr	35.573	2.17237E-23
AR	kg/hr	5137.65	7.62994E-24
H2S	kg/hr	1058.02	899.118
CO2	kg/hr	388883	9.60905
NH3	kg/hr	75.5267	64.9274
H2O	kg/hr	838.884	76.346
Mass Fractions			
H2		0.0544649	3.77886E-43
CO		0.0184142	5.76814E-33
N2		0.0443098	6.00643E-33
CH4		7.92979E-05	2.06893E-26
AR		0.0114526	7.26661E-27
H2S		0.00235849	0.856302
CO2		0.866882	0.00915148
NH3		0.000168361	0.0618356
H2O		0.00187	0.0727105

### Stream Summary

	Units	SYNGAS
NH3	kmol/hr	8.77172E-13
H2O	kmol/hr	0
Mole Fractions		
H2		0.829654
CO		0.0201837
N2		0.0485612
CH4		0.000151307
AR		0.00878989
H2S		3.17118E-05
CO2		0.0926284
NH3		6.00443E-17
H2O		0
Mass Flows		
	kg/hr	117300
H2	kg/hr	24432.9
CO	kg/hr	8259.12
N2	kg/hr	19873.3
CH4	kg/hr	35.4609
AR	kg/hr	5129.7
H2S	kg/hr	15.7891
CO2	kg/hr	59553.4
NH3	kg/hr	1.49387E-11
H2O	kg/hr	0
Mass Fractions		
H2		0.208295
CO		0.0704104
N2		0.169423
CH4		0.000302311
AR		0.0437316
H2S		0.000134605
CO2		0.507703
NH3		1.27355E-16
H2O		0

### Stream Summary

	Units	2	3
Volume Flow	l/min	247095	250244
Vapor Phase			
Molar Enthalpy	cal/mol	-38177.9	-38176.9
Mass Enthalpy	cal/gm	-1886.7	-1886.65
Molar Entropy	cal/mol-K	-5.44396	-5.41653
Mass Entropy	cal/gm-K	-0.269032	-0.267677
Molar Density	mol/cc	0.00149282	0.00147395
Mass Density	gm/cc	0.0302076	0.0298259
Enthalpy Flow	cal/sec	-2.34698E+08	-2.34692E+08
Average MW		20.2353	20.2353
Mole Flows	kmol/hr	22130.9	22130.9
H2	kmol/hr	12120.2	12120.2
CO	kmol/hr	294.913	294.913
N2	kmol/hr	709.564	709.564
CH4	kmol/hr	2.21739	2.21739
AR	kmol/hr	128.608	128.608
H2S	kmol/hr	31.0428	31.0428
CO2	kmol/hr	8836.29	8836.29
NH3	kmol/hr	3.80728	3.8124
H2O	kmol/hr	4.20117	4.23785
Mole Fractions			
H2		0.547662	0.547661
CO		0.0133258	0.0133258
N2		0.0320622	0.0320621
CH4		0.000100194	0.000100194
AR		0.00581127	0.00581126
H2S		0.00140269	0.00140269
CO2		0.399274	0.399273
NH3		0.000172035	0.000172266
H2O		0.000189833	0.00019149
Mass Flows	kg/hr	447826	447827
H2	kg/hr	24433	24433

### Stream Summary

	Units	4	5
Volume Flow	l/min	12.7452	210260
Vapor Phase			
Molar Enthalpy	cal/mol		-38518.6
Mass Enthalpy	cal/gm		-1905.02
Molar Entropy	cal/mol-K		-6.62641
Mass Entropy	cal/gm-K		-0.327723
Molar Density	mol/cc		0.0017515
Mass Density	gm/cc		0.0354145
Enthalpy Flow	cal/sec		-2.36422E+08
Average MW			20.2195
Mole Flows	kmol/hr		22096.3
H2	kmol/hr		12120.2
CO	kmol/hr		294.913
N2	kmol/hr		709.564
CH4	kmol/hr		2.21739
AR	kmol/hr		128.608
H2S	kmol/hr		4.66166
CO2	kmol/hr		8836.07
NH3	kmol/hr		1.30067E-10
H2O	kmol/hr		2.96254E-22
Mole Fractions			
H2			0.54852
CO			0.0133467
N2			0.0321124
CH4			0.000100351
AR			0.00582037
H2S			0.000210971
CO2			0.39989
NH3			5.88637E-15
H2O			1.34074E-26
Mass Flows	kg/hr		446777
H2	kg/hr		24433

### Stream Summary

	Units	7	CO2
Volume Flow	l/min	131123	8546.41
Vapor Phase			
Molar Enthalpy	cal/mol	-37985.4	
Mass Enthalpy	cal/gm	-1878.65	
Molar Entropy	cal/mol-K	-6.13148	
Mass Entropy	cal/gm-K	-0.303245	
Molar Density	mol/cc	0.0028086	
Mass Density	gm/cc	0.0567887	
Enthalpy Flow	cal/sec	-2.33149E+08	
Average MW		20.2195	
Mole Flows	kmol/hr	22096.3	
H2	kmol/hr	12120.2	
CO	kmol/hr	294.913	
N2	kmol/hr	709.564	
CH4	kmol/hr	2.21739	
AR	kmol/hr	128.608	
H2S	kmol/hr	4.66166	
CO2	kmol/hr	8836.07	
NH3	kmol/hr	1.30067E-10	
H2O	kmol/hr	2.96254E-22	
Mole Fractions			
H2		0.54852	
CO		0.0133467	
N2		0.0321124	
CH4		0.000100351	
AR		0.00582037	
H2S		0.000210971	
CO2		0.39989	
NH3		5.88637E-15	
H2O		1.34074E-26	
Mass Flows	kg/hr	446777	
H2	kg/hr	24433	

### Stream Summary

	Units	FEED	H2S
Volume Flow	l/min	292191	23.5112
Vapor Phase			
Molar Enthalpy	cal/mol	-37910.4	
Mass Enthalpy	cal/gm	-1873.86	
Molar Entropy	cal/mol-K	-4.35845	
Mass Entropy	cal/gm-K	-0.215433	
Molar Density	mol/cc	0.00126472	
Mass Density	gm/cc	0.0255868	
Enthalpy Flow	cal/sec	-2.33491E+08	
Average MW		20.2312	
Mole Flows	kmol/hr	22172.4	
H2	kmol/hr	12120.2	
CO	kmol/hr	294.913	
N2	kmol/hr	709.564	
CH4	kmol/hr	2.21739	
AR	kmol/hr	128.609	
H2S	kmol/hr	31.0434	
CO2	kmol/hr	8836.29	
NH3	kmol/hr	4.43012	
H2O	kmol/hr	45.1343	
Mole Fractions			
H2		0.546635	
CO		0.0133009	
N2		0.0320021	
CH4		0.000100006	
AR		0.00580038	
H2S		0.00140009	
CO2		0.398526	
NH3		0.000199803	
H2O		0.0020356	
Mass Flows	kg/hr	448574	
H2	kg/hr	24433	

### Stream Summary

	Units	SYNGAS
Volume Flow	l/min	62078
Vapor Phase		
Molar Enthalpy	cal/mol	-9882.95
Mass Enthalpy	cal/gm	-1230.84
Molar Entropy	cal/mol-K	-9.20743
Mass Entropy	cal/gm-K	-1.14671
Molar Density	mol/cc	0.00392215
Mass Density	gm/cc	0.0314926
Enthalpy Flow	cal/sec	-4.01049E+07
Average MW		8.02941
Mole Flows	kmol/hr	14608.8
H2	kmol/hr	12120.2
CO	kmol/hr	294.859
N2	kmol/hr	709.419
CH4	kmol/hr	2.2104
AR	kmol/hr	128.409
H2S	kmol/hr	0.46327
CO2	kmol/hr	1353.19
NH3	kmol/hr	8.77172E-13
H2O	kmol/hr	0
Mole Fractions		
H2		0.829654
CO		0.0201837
N2		0.0485612
CH4		0.000151307
AR		0.00878989
H2S		3.17118E-05
CO2		0.0926284
NH3		6.00443E-17
H2O		0
Mass Flows	kg/hr	117300
H2	kg/hr	24432.9

### Stream Summary

	Units	2	3
CO	kg/hr	8260.62	8260.62
N2	kg/hr	19877.4	19877.4
CH4	kg/hr	35.573	35.573
AR	kg/hr	5137.65	5137.65
H2S	kg/hr	1058	1058
CO2	kg/hr	388883	388883
NH3	kg/hr	64.8401	64.9274
H2O	kg/hr	75.6853	76.346
Mass Fractions			
H2		0.054559	0.054559
CO		0.0184461	0.018446
N2		0.0443864	0.0443863
CH4		7.94349E-05	7.94348E-05
AR		0.0114724	0.0114724
H2S		0.00236252	0.00236251
CO2		0.86838	0.868379
NH3		0.000144789	0.000144983
H2O		0.000169006	0.000170481
Volume Flow	l/min	247082	250244
Liquid Phase			
Molar Enthalpy	cal/mol	-68475.3	
Mass Enthalpy	cal/gm	-3803.43	
Molar Entropy	cal/mol-K	-41.8331	
Mass Entropy	cal/gm-K	-2.3236	
Molar Density	mol/cc	0.0561682	
Mass Density	gm/cc	1.01123	
Enthalpy Flow	cal/sec	-817828	
Average MW		18.0036	
Mole Flows	kmol/hr	42.9962	
H2	kmol/hr	5.14937E-05	
CO	kmol/hr	4.84771E-07	
N2	kmol/hr	1.39864E-06	



### Stream Summary

	Units	4	5
CO	kg/hr		8260.62
N2	kg/hr		19877.4
CH4	kg/hr		35.573
AR	kg/hr		5137.65
H2S	kg/hr		158.878
CO2	kg/hr		388874
NH3	kg/hr		2.21511E-09
H2O	kg/hr		5.3371E-21
Mass Fractions			
H2			0.0546872
CO			0.0184894
N2			0.0444906
CH4			7.96215E-05
AR			0.0114994
H2S			0.00035561
CO2			0.870398
NH3			4.95799E-15
H2O			1.19458E-26
Volume Flow	l/min		210260
Liquid Phase			
Molar Enthalpy	cal/mol	-68480.7	
Mass Enthalpy	cal/gm	-3803.72	
Molar Entropy	cal/mol-K	-41.8328	
Mass Entropy	cal/gm-K	-2.32358	
Molar Density	mol/cc	0.0561705	
Mass Density	gm/cc	1.01127	
Enthalpy Flow	cal/sec	-817096	
Average MW		18.0036	
Mole Flows	kmol/hr	42.9543	
H2	kmol/hr	5.07685E-05	
CO	kmol/hr	4.78397E-07	
N2	kmol/hr	1.38046E-06	

### Stream Summary

	Units	7	CO2
CO	kg/hr	8260.62	
N2	kg/hr	19877.4	
CH4	kg/hr	35.573	
AR	kg/hr	5137.65	
H2S	kg/hr	158.878	
CO2	kg/hr	388874	
NH3	kg/hr	2.21511E-09	
H2O	kg/hr	5.3371E-21	
Mass Fractions			
H2		0.0546872	
CO		0.0184894	
N2		0.0444906	
CH4		7.96215E-05	
AR		0.0114994	
H2S		0.00035561	
CO2		0.870398	
NH3		4.95799E-15	
H2O		1.19458E-26	
Volume Flow	l/min	131123	
Liquid Phase			
Molar Enthalpy	cal/mol		-95900.6
Mass Enthalpy	cal/gm		-2179.39
Molar Entropy	cal/mol-K		-13.382
Mass Entropy	cal/gm-K		-0.304113
Molar Density	mol/cc		0.0146017
Mass Density	gm/cc		0.642525
Enthalpy Flow	cal/sec		-1.99461E+08
Average MW			44.0035
Mole Flows	kmol/hr		7487.52
H2	kmol/hr		0.0334385
CO	kmol/hr		0.0534892
N2	kmol/hr		0.145402

### Stream Summary

	Units	FEED	H2S
CO	kg/hr	8260.62	
N2	kg/hr	19877.4	
CH4	kg/hr	35.573	
AR	kg/hr	5137.65	
H2S	kg/hr	1058.02	
CO2	kg/hr	388883	
NH3	kg/hr	75.4475	
H2O	kg/hr	813.107	
Mass Fractions			
H2		0.054468	
CO		0.0184153	
N2		0.0443123	
CH4		7.93024E-05	
AR		0.0114533	
H2S		0.00235862	
CO2		0.866932	
NH3		0.000168194	
H2O		0.00181265	
Volume Flow	l/min	292191	
Liquid Phase			
Molar Enthalpy	cal/mol	-68321	-16617.5
Mass Enthalpy	cal/gm	-3792.11	-548.371
Molar Entropy	cal/mol-K	-39.344	-12.745
Mass Entropy	cal/gm-K	-2.18376	-0.420582
Molar Density	mol/cc	0.0544422	0.0245626
Mass Density	gm/cc	0.980865	0.744327
Enthalpy Flow	cal/sec	-27248.3	-159942
Average MW		18.0166	30.3033
Mole Flows			
H2	kmol/hr	1.43578	34.6497
CO	kmol/hr	6.22948E-06	1.96827E-40
CO	kmol/hr	7.39891E-08	2.16225E-31
N2	kmol/hr	2.21472E-07	2.25133E-31

### Stream Summary

	Units	SYNGAS
CO	kg/hr	8259.12
N2	kg/hr	19873.3
CH4	kg/hr	35.4609
AR	kg/hr	5129.7
H2S	kg/hr	15.7891
CO2	kg/hr	59553.4
NH3	kg/hr	1.49387E-11
H2O	kg/hr	0
Mass Fractions		
H2		0.208295
CO		0.0704104
N2		0.169423
CH4		0.000302311
AR		0.0437316
H2S		0.000134605
CO2		0.507703
NH3		1.27355E-16
H2O		0
Volume Flow	l/min	62078
Liquid Phase		
Molar Enthalpy	cal/mol	
Mass Enthalpy	cal/gm	
Molar Entropy	cal/mol-K	
Mass Entropy	cal/gm-K	
Molar Density	mol/cc	
Mass Density	gm/cc	
Enthalpy Flow	cal/sec	
Average MW		
Mole Flows	kmol/hr	
H2	kmol/hr	
CO	kmol/hr	
N2	kmol/hr	

### Stream Summary

	Units	2	3
CH4	kmol/hr	4.81826E-08	
AR	kmol/hr	8.41651E-06	
H2S	kmol/hr	0.000672754	
CO2	kmol/hr	0.00399065	
NH3	kmol/hr	0.627497	
H2O	kmol/hr	42.364	
Mole Fractions			
H2		1.19763E-06	
CO		1.12747E-08	
N2		3.25294E-08	
CH4		1.12062E-09	
AR		1.9575E-07	
H2S		1.56468E-05	
CO2		9.2814E-05	
NH3		0.0145943	
H2O		0.985296	
Mass Flows			
	kg/hr	774.085	
H2	kg/hr	0.000103805	
CO	kg/hr	1.35786E-05	
N2	kg/hr	3.91808E-05	
CH4	kg/hr	7.72981E-07	
AR	kg/hr	0.000336223	
H2S	kg/hr	0.0229287	
CO2	kg/hr	0.175628	
NH3	kg/hr	10.6866	
H2O	kg/hr	763.199	
Mass Fractions			
H2		1.34101E-07	
CO		1.75415E-08	
N2		5.06156E-08	
CH4		9.98575E-10	
AR		4.34349E-07	

### Stream Summary

	Units	4	5
CH4	kmol/hr	4.75823E-08	
AR	kmol/hr	8.30789E-06	
H2S	kmol/hr	0.000665444	
CO2	kmol/hr	0.00394567	
NH3	kmol/hr	0.622373	
H2O	kmol/hr	42.3273	
Mole Fractions			
H2		1.18192E-06	
CO		1.11373E-08	
N2		3.21378E-08	
CH4		1.10774E-09	
AR		1.93412E-07	
H2S		1.54919E-05	
CO2		9.18574E-05	
NH3		0.0144892	
H2O		0.985402	
Mass Flows			
	kg/hr	773.334	
H2	kg/hr	0.000102343	
CO	kg/hr	1.34001E-05	
N2	kg/hr	3.86714E-05	
CH4	kg/hr	7.63352E-07	
AR	kg/hr	0.000331884	
H2S	kg/hr	0.0226796	
CO2	kg/hr	0.173648	
NH3	kg/hr	10.5994	
H2O	kg/hr	762.538	
Mass Fractions			
H2		1.3234E-07	
CO		1.73277E-08	
N2		5.00061E-08	
CH4		9.87091E-10	
AR		4.29159E-07	

### Stream Summary

	Units	7	CO2
CH4	kmol/hr		0.00698648
AR	kmol/hr		0.199152
H2S	kmol/hr		4.19839
CO2	kmol/hr		7482.88
NH3	kmol/hr		1.2919E-10
H2O	kmol/hr		0
Mole Fractions			
H2			4.4659E-06
CO			7.14378E-06
N2			1.94193E-05
CH4			9.33083E-07
AR			2.65979E-05
H2S			0.000560719
CO2			0.999381
NH3			1.7254E-14
H2O			0
Mass Flows			
	kg/hr		329477
H2	kg/hr		0.067408
CO	kg/hr		1.49825
N2	kg/hr		4.07323
CH4	kg/hr		0.112082
AR	kg/hr		7.95573
H2S	kg/hr		143.089
CO2	kg/hr		329320
NH3	kg/hr		2.20017E-09
H2O	kg/hr		0
Mass Fractions			
H2			2.04591E-07
CO			4.54737E-06
N2			1.23627E-05
CH4			3.40183E-07
AR			2.41466E-05

### Stream Summary

	Units	FEED	H2S
CH4	kmol/hr	5.73089E-09	1.35412E-24
AR	kmol/hr	7.42948E-07	1.90997E-25
H2S	kmol/hr	2.49713E-05	26.3811
CO2	kmol/hr	0.000239371	0.218339
NH3	kmol/hr	0.00465131	3.8124
H2O	kmol/hr	1.43086	4.23785
Mole Fractions			
H2		4.33874E-06	5.68049E-42
CO		5.15323E-08	6.24031E-33
N2		1.54252E-07	6.4974E-33
CH4		3.99148E-09	3.90801E-26
AR		5.17453E-07	5.51222E-27
H2S		1.73921E-05	0.761366
CO2		0.000166718	0.00630132
NH3		0.00323957	0.110027
H2O		0.996571	0.122306
Mass Flows			
	kg/hr	25.8679	1050
H2	kg/hr	1.25579E-05	3.9678E-40
CO	kg/hr	2.07246E-06	6.05654E-30
N2	kg/hr	6.20421E-06	6.30675E-30
CH4	kg/hr	9.19393E-08	2.17237E-23
AR	kg/hr	2.96793E-05	7.62994E-24
H2S	kg/hr	0.000851068	899.118
CO2	kg/hr	0.0105347	9.60905
NH3	kg/hr	0.0792144	64.9274
H2O	kg/hr	25.7773	76.346
Mass Fractions			
H2		4.85461E-07	3.77886E-43
CO		8.0117E-08	5.76814E-33
N2		2.39842E-07	6.00643E-33
CH4		3.55418E-09	2.06893E-26
AR		1.14734E-06	7.26661E-27



### Stream Summary

	Units	SYNGAS
CH4	kmol/hr	
AR	kmol/hr	
H2S	kmol/hr	
CO2	kmol/hr	
NH3	kmol/hr	
H2O	kmol/hr	
Mole Fractions		
H2		
CO		
N2		
CH4		
AR		
H2S		
CO2		
NH3		
H2O		
Mass Flows	kg/hr	
H2	kg/hr	
CO	kg/hr	
N2	kg/hr	
CH4	kg/hr	
AR	kg/hr	
H2S	kg/hr	
CO2	kg/hr	
NH3	kg/hr	
H2O	kg/hr	
Mass Fractions		
H2		
CO		
N2		
CH4		
AR		

### Stream Summary

	Units	2	3
H2S		2.96205E-05	
CO2		0.000226884	
NH3		0.0138055	
H2O		0.985937	
Volume Flow	l/min	12.7582	

### Stream Summary

	Units	4	5
H2S		2.9327E-05	
CO2		0.000224545	
NH3		0.013706	
H2O		0.986039	
Volume Flow	l/min	12.7452	

### Stream Summary

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	Units	7	CO2
H2S			0.000434292
CO2			0.999524
NH3			6.67778E-15
H2O			0
Volume Flow	l/min		8546.41

### Stream Summary

	Units	FEED	H2S
H2S		3.29005E-05	0.856302
CO2		0.000407248	0.00915148
NH3		0.00306226	0.0618356
H2O		0.996496	0.0727105
Volume Flow	l/min	0.439543	23.5112

Stream Summary

	Units	SYNGAS
H2S		
CO2		
NH3		
H2O		
Volume Flow	l/min	