	1	2	3	4	5	GAS-IN	GAS-IN2	GAS-OUT
	VSLMIX	VSLSP	SCB12	VSLENT	PJM	MTSPLIT	SCB12	
	SCB12	VSLMIX	VSLSP	VSLSP	VSLENT		MTSPLIT	MTMIX
	MIXED	MIXED	MIXED	MIXED	MISSING	VAPOR	VAPOR	VAPOR
Substream								
Mole Flow								
H2O	997.9499	1000.548	990.2777	10.27046	0	22.96089	22.96089	15.52489
ACETACI	7.53E-12	7.53E-12	7.45E-12	7.73E-14	0	0	0	0
CO2	2.92E-05	2.88E-05	2.84E-05	2.96E-07	0	0.551428	0.011029	0.551137
FORM2	0	0	0	0	0	0	0	0
H2F2	0	1.13E-17	1.12E-17	1.16E-19	0	0	0	0
ACET2	0	1.09E-31	1.07E-31	1.11E-33	0	0	0	0
H2SO4	0	1.21E-28	1.20E-28	1.24E-30	0	0	0	0
H2	0	0	0	0	0	0	0	0
HCL	0	2.92E-15	2.89E-15	3.00E-17	0	1.81E-03	1.81E-03	0
HCOOH	0	4.97E-13	4.92E-13	5.11E-15	0	0	0	0
HF	2.38E-06	2.35E-06	2.33E-06	2.42E-08	0	1.96E-03	1.96E-03	3.68E-09
HNO2	0	3.35E-12	3.31E-12	3.44E-14	0	0	0	9.37E-12
HNO3	0	2.19E-13	2.16E-13	2.24E-15	0	0	0	0
N2O4	1.59E-08	1.59E-08	1.56E-08	1.63E-10	0	0	0	7.59E-07
N2	5.24E-03	5.24E-03	5.18E-03	5.37E-05	0	73.45357	73.45357	73.45352
NH3	0.131121	0.134086	0.132728	1.38E-03	0	0.041088	0.041088	0.044608
NO2	4.84E-04	4.84E-04	4.78E-04	4.97E-06	0	9.01E-03	9.01E-03	9.00E-03
NO	2.08E-05	2.08E-05	2.05E-05	2.13E-07	0	0.098882	0.098882	0.098881
O2	2.57E-03	2.57E-03	2.54E-03	2.63E-05	0	19.60743	19.60743	19.6074
SICL4	0	0	0	0	0	0	0	0
SIF4	0	5.94E-29	5.87E-29	6.09E-31	0	0	0	0
SO2	3.81E-09	3.73E-09	3.69E-09	3.83E-11	0	8.67E-04	8.67E-04	5.35E-08
SO3	0	2.30E-32	2.28E-32	2.36E-34	0	0	0	0
TIIVCL4	0	0	0	0	0	0	0	0
CACO3	3.09E-07	3.09E-07	3.04E-07	3.17E-09	0	0	0	0
CACOOH	0	4.01E-21	3.96E-21	4.11E-23	0	0	0	0
CAH2SIC	0	1.08E-12	1.07E-12	1.11E-14	0	0	0	0
CAHC2O	0	2.41E-28	2.36E-28	2.47E-30	0	0	0	0
CAHPO4	3.27E-06	3.25E-06	3.22E-06	3.34E-08	0	0	0	0
CASO4	7.63E-08	7.57E-08	7.50E-08	7.78E-10	0	0	0	0
AGF	0	0	0	0	0	0	0	0
COACET	0	0	0	0	0	0	0	0
COC2O4	0	0	0	0	0	0	0	0
COCOOH	0	0	0	0	0	0	0	0
COIIOH2	0	0	0	0	0	0	0	0
COSEO4	0	0	0	0	0	0	0	0
CROH3	5.38E-11	5.39E-11	5.34E-11	5.54E-13	0	0	0	0
CSACET	0	2.61E-13	2.58E-13	2.68E-15	0	0	0	0
CSCL	1.05E-06	1.04E-06	1.03E-06	1.07E-08	0	0	0	0
CSNO3	8.10E-06	8.16E-06	8.08E-06	8.38E-08	0	0	0	0
FECL3	0	1.02E-31	1.01E-31	1.05E-33	0	0	0	0
FEIIIF3	0	3.57E-21	3.53E-21	3.66E-23	0	0	0	0
FEIIIOH3	2.30E-10	2.31E-10	2.29E-10	2.37E-12	0	0	0	0
AGACET	0	0	0	0	0	0	0	0

AGNO3	0	0	0	0	0	0	0	0
AGCL	0	0	0	0	0	0	0	0
H2SIF6	0	0	0	0	0	0	0	0
AGNO2	0	0	0	0	0	0	0	0
H2ZRF6	0	0	0	0	0	0	0	0
H3PO4	4.28E-10	4.20E-10	4.15E-10	4.31E-12	0	0	0	0
H3SBO4	0	0	0	0	0	0	0	0
H4P2O7	0	3.20E-23	3.16E-23	3.28E-25	0	0	0	0
HBF4	0	9.03E-27	8.93E-27	9.27E-29	0	0	0	0
AGOH	0	0	0	0	0	0	0	0
ALF3	1.83E-07	1.77E-07	1.75E-07	1.81E-09	0	0	0	0
ALO2H2C	0	1.74E-28	1.73E-28	1.79E-30	0	0	0	0
ALOH3	2.27E-07	2.28E-07	2.25E-07	2.34E-09	0	0	0	0
AMIIIF3	0	0	0	0	0	0	0	0
KACET	2.45E-11	2.47E-11	2.44E-11	2.53E-13	0	0	0	0
KCL	4.97E-06	4.95E-06	4.90E-06	5.08E-08	0	0	0	0
KCOOH	2.75E-11	2.78E-11	2.75E-11	2.85E-13	0	0	0	0
KHSO4	0	3.40E-14	3.36E-14	3.49E-16	0	0	0	0
LAACET3	0	0	0	0	0	0	0	0
LACL3	0	2.13E-21	2.11E-21	2.19E-23	0	0	0	0
LAF3	0	1.88E-12	1.86E-12	1.93E-14	0	0	0	0
LAOH3	0	2.67E-15	2.65E-15	2.74E-17	0	0	0	0
LIACET	2.67E-10	2.69E-10	2.67E-10	2.76E-12	0	0	0	0
LIH2BO3	2.66E-03	2.68E-03	2.65E-03	2.75E-05	0	0	0	0
LIOH	3.68E-06	3.71E-06	3.68E-06	3.81E-08	0	0	0	0
MGACET	0	2.38E-24	2.35E-24	2.44E-26	0	0	0	0
MGC2O4	3.65E-12	3.73E-12	3.67E-12	3.83E-14	0	0	0	0
MGCO3	7.40E-11	7.51E-11	7.39E-11	7.71E-13	0	0	0	0
MGCOOH	0	1.38E-24	1.37E-24	1.42E-26	0	0	0	0
MGH2SIC	0	6.43E-15	6.36E-15	6.60E-17	0	0	0	0
MGHPO4	1.17E-08	1.18E-08	1.17E-08	1.21E-10	0	0	0	0
MGSO4	1.02E-10	1.03E-10	1.02E-10	1.06E-12	0	0	0	0
MNACET	0	2.72E-20	2.71E-20	2.79E-22	0	0	0	0
MNC2O4	7.71E-07	7.78E-07	7.71E-07	7.99E-09	0	0	0	0
MNCOOH	0	4.64E-20	4.62E-20	4.76E-22	0	0	0	0
MNNO32	1.12E-06	1.13E-06	1.12E-06	1.16E-08	0	0	0	0
MNOH2	1.06E-08	1.08E-08	1.07E-08	1.11E-10	0	0	0	0
MNSEO4	0	0	0	0	0	0	0	0
MNSO4	2.10E-06	2.08E-06	2.07E-06	2.14E-08	0	0	0	0
AMNO33	0	0	0	0	0	0	0	0
AMIIIOH3	0	0	0	0	0	0	0	0
NAACET	2.97E-10	3.00E-10	2.97E-10	3.08E-12	0	0	0	0
NABOH4	2.10E-03	2.11E-03	2.09E-03	2.17E-05	0	0	0	0
NACOOH	2.49E-10	2.51E-10	2.49E-10	2.58E-12	0	0	0	0
NAF	2.46E-03	2.45E-03	2.43E-03	2.52E-05	0	0	0	0
NAHCO3	3.27E-05	3.26E-05	3.21E-05	3.35E-07	0	0	0	0
NAHSIO3	2.95E-07	2.97E-07	2.94E-07	3.05E-09	0	0	0	0
NANO3	3.33E-03	3.35E-03	3.32E-03	3.44E-05	0	0	0	0
BAAC2	0	2.07E-24	2.05E-24	2.12E-26	0	0	0	0
NH4ACET	5.62E-10	5.73E-10	5.67E-10	5.88E-12	0	0	0	0
NH4NO3	0.0914	0.093122	0.092153	9.56E-04	0	0	0	0

NIACET2	0	1.17E-24	1.16E-24	1.20E-26	0	0	0	0
NIC2O4	4.33E-10	4.32E-10	4.25E-10	4.44E-12	0	0	0	0
NICOOH2	0	2.19E-24	2.17E-24	2.25E-26	0	0	0	0
NIOH2	3.12E-10	3.14E-10	3.10E-10	3.22E-12	0	0	0	0
NISEO4	0	0	0	0	0	0	0	0
NISO4	8.75E-11	8.60E-11	8.51E-11	8.83E-13	0	0	0	0
BACO3	0	9.26E-18	9.11E-18	9.50E-20	0	0	0	0
BACOOH	0	3.43E-24	3.39E-24	3.52E-26	0	0	0	0
BAOX	0	1.73E-16	1.71E-16	1.78E-18	0	0	0	0
OXALAC	0	3.10E-19	3.05E-19	3.18E-21	0	0	0	0
SBOH5	0	0	0	0	0	0	0	0
BASO4	0	1.58E-13	1.56E-13	1.62E-15	0	0	0	0
BOH3	1.105926	1.104301	1.092924	0.011335	0	0	0	0
SIO2	5.64E-06	5.64E-06	5.58E-06	5.79E-08	0	0	0	0
CAACET	0	7.91E-21	7.83E-21	8.12E-23	0	0	0	0
CAC2O4	4.23E-10	4.26E-10	4.19E-10	4.38E-12	0	0	0	0
SRC2O4	0	7.48E-14	7.37E-14	7.68E-16	0	0	0	0
SRCOOH	0	6.75E-25	6.68E-25	6.93E-27	0	0	0	0
SRHC2O4	0	2.89E-32	2.83E-32	2.97E-34	0	0	0	0
SRHPO4	6.60E-11	6.65E-11	6.59E-11	6.83E-13	0	0	0	0
SRNO32	8.19E-11	8.37E-11	8.28E-11	8.59E-13	0	0	0	0
SRSO4	3.74E-11	3.77E-11	3.73E-11	3.87E-13	0	0	0	0
THF4	0	6.29E-20	6.22E-20	6.46E-22	0	0	0	0
THHPO42	0	8.53E-17	8.43E-17	8.75E-19	0	0	0	0
THNO34	0	0	0	0	0	0	0	0
THOH4	3.74E-12	3.75E-12	3.71E-12	3.85E-14	0	0	0	0
THSO42	0	5.05E-31	4.99E-31	5.18E-33	0	0	0	0
CACL2	0	1.35E-23	1.33E-23	1.38E-25	0	0	0	0
TIIVF4	0	3.89E-25	3.85E-25	4.00E-27	0	0	0	0
TIIVOH4	0	4.79E-15	4.74E-15	4.92E-17	0	0	0	0
TIOST	0	7.28E-30	7.20E-30	7.47E-32	0	0	0	0
UO2AC2	0	4.52E-27	4.52E-27	4.64E-29	0	0	0	0
UO2C2O4	0	7.93E-16	7.89E-16	8.14E-18	0	0	0	0
UO2CL2	0	3.69E-19	3.70E-19	3.79E-21	0	0	0	0
UO2CO3	3.51E-10	3.52E-10	3.51E-10	3.62E-12	0	0	0	0
UO2F2	1.12E-09	1.11E-09	1.11E-09	1.14E-11	0	0	0	0
UO2SO4	0	2.05E-15	2.05E-15	2.11E-17	0	0	0	0
ZRC2O42	0	1.42E-30	1.39E-30	1.46E-32	0	0	0	0
ZRCL4	0	0	0	0	0	0	0	0
ZRF4	0	4.63E-15	4.58E-15	4.75E-17	0	0	0	0
ZROH4	1.79E-11	1.80E-11	1.78E-11	1.85E-13	0	0	0	0
CS2O	0	0	0	0	0	0	0	0
CSOH	0	0	0	0	0	0	0	0
FE2O3	0	0	0	0	0	0	0	0
FEOOH	0	0	0	0	0	0	0	0
AG2CO3	0	0	0	0	0	0	0	0
H2CR2O7	0	0	0	0	0	0	0	0
AMIII2C	0	0	0	0	0	0	0	0
BAOH2	0	0	0	0	0	0	0	0
K2O	0	0	0	0	0	0	0	0
KALSIO	0	0	0	0	0	0	0	0

KOH	0	0	0	0	0	0	0	0
LA2O3	0	0	0	0	0	0	0	0
LI2CO3	0	0	0	0	0	0	0	0
LI2O	0	0	0	0	0	0	0	0
LOWALB	0	0	0	0	0	0	0	0
MGCR2C	0	0	0	0	0	0	0	0
MGOH2	0	0	0	0	0	0	0	0
MNCO3	0	0	0	0	0	0	0	0
MNO	0	0	0	0	0	0	0	0
NA2CO4	0	0	0	0	0	0	0	0
NA2CO3	0	0	0	0	0	0	0	0
NACRO7	0	0	0	0	0	0	0	0
NA2O	0	0	0	0	0	0	0	0
NA2SO4	0	0	0	0	0	0	0	0
NA2UO7	0	0	0	0	0	0	0	0
NA3PO4	0	0	0	0	0	0	0	0
NAALO22	0	0	0	0	0	0	0	0
NAB5O8	0	0	0	0	0	0	0	0
NACL	0	0	0	0	0	0	0	0
NANO2	0	0	0	0	0	0	0	0
NAOH	0	0	0	0	0	0	0	0
CACR2O7	0	0	0	0	0	0	0	0
NIO	0	0	0	0	0	0	0	0
CAOH2	0	0	0	0	0	0	0	0
CAO	0	0	0	0	0	0	0	0
CASIO3	0	0	0	0	0	0	0	0
P2O5	0	0	0	0	0	0	0	0
RUTILE	0	0	0	0	0	0	0	0
AL2O3	0	0	0	0	0	0	0	0
SRCO3	0	0	0	0	0	0	0	0
THO2	0	0	0	0	0	0	0	0
UO3	0	0	0	0	0	0	0	0
ZRO2	0	0	0	0	0	0	0	0
ZRSIO4	0	0	0	0	0	0	0	0
ZRSO42W	0	0	0	0	0	0	0	0
B2O3X	0	0	0	0	0	0	0	0
CA5OHP	0	0	0	0	0	0	0	0
CR2O3	0	0	0	0	0	0	0	0
AMIIF3	0	0	0	0	0	0	0	0
BACOOH	0	0	0	0	0	0	0	0
CACOOH	0	0	0	0	0	0	0	0
FEF3	0	0	0	0	0	0	0	0
FEOH3	0	0	0	0	0	0	0	0
MGACET	0	0	0	0	0	0	0	0
MGCOOH	0	0	0	0	0	0	0	0
NICOOH	0	0	0	0	0	0	0	0
AMCOOH	0	0	0	0	0	0	0	0
BA3PO42	0	0	0	0	0	0	0	0
NACO3W	0	0	0	0	0	0	0	0
NA2SIOW	0	0	0	0	0	0	0	0
NA3FS4	0	0	0	0	0	0	0	0

BAHCO3	0	0	0	0	0	0	0	0
NA2SO4	0	0	0	0	0	0	0	0
NANO3S	0	0	0	0	0	0	0	0
WEGSCH	0	0	0	0	0	0	0	0
LAWSON	0	0	0	0	0	0	0	0
LMNTITE	0	0	0	0	0	0	0	0
WAIRAKI	0	0	0	0	0	0	0	0
LISI5O11	0	0	0	0	0	0	0	0
LI2SIO3	0	0	0	0	0	0	0	0
LINO2	0	0	0	0	0	0	0	0
NASI5O1	0	0	0	0	0	0	0	0
NA4P27	0	0	0	0	0	0	0	0
NISO4B	0	0	0	0	0	0	0	0
ALACET3	0	0	0	0	0	0	0	0
ALCL3	0	0	0	0	0	0	0	0
ALNO23I	0	0	0	0	0	0	0	0
ALNO33I	0	0	0	0	0	0	0	0
AMEST7	0	0	0	0	0	0	0	0
BAHSO3	0	0	0	0	0	0	0	0
BAHSO4	0	0	0	0	0	0	0	0
BAAMCO	0	0	0	0	0	0	0	0
BAOHCL	0	0	0	0	0	0	0	0
BAOHHC	0	0	0	0	0	0	0	0
CA2CL2C	0	0	0	0	0	0	0	0
CAHCO3	0	0	0	0	0	0	0	0
CABCAC	0	0	0	0	0	0	0	0
CABCAS	0	0	0	0	0	0	0	0
CABCAA	0	0	0	0	0	0	0	0
CAHCO3	0	0	0	0	0	0	0	0
CABCAB	0	0	0	0	0	0	0	0
CABCAB	0	0	0	0	0	0	0	0
CAHCO3	0	0	0	0	0	0	0	0
CAHSO3	0	0	0	0	0	0	0	0
CAHSO4	0	0	0	0	0	0	0	0
CAAMCO	0	0	0	0	0	0	0	0
CAOHCL	0	0	0	0	0	0	0	0
CAPHILL	0	0	0	0	0	0	0	0
CHABAZI	0	0	0	0	0	0	0	0
CRSO43	0	0	0	0	0	0	0	0
CRNO33	0	0	0	0	0	0	0	0
CUMTON	0	0	0	0	0	0	0	0
DICKIT	0	0	0	0	0	0	0	0
EPISIN	0	0	0	0	0	0	0	0
FEIII2C3	0	0	0	0	0	0	0	0
FENO33	0	0	0	0	0	0	0	0
FLUTRMI	0	0	0	0	0	0	0	0
H2CO3IN	0	0	0	0	0	0	0	0
H2CRO4I	0	0	0	0	0	0	0	0
H2SEO4	0	0	0	0	0	0	0	0
H2SO3IN	0	0	0	0	0	0	0	0
H4SIO4	0	0	0	0	0	0	0	0

H6F6	0	0	0	0	0	0	0	0
HALLOIS	0	0	0	0	0	0	0	0
HEULANI	0	0	0	0	0	0	0	0
HNH2CO	0	0	0	0	0	0	0	0
KHSO3IN	0	0	0	0	0	0	0	0
KNH2CO	0	0	0	0	0	0	0	0
KPHILLIN	0	0	0	0	0	0	0	0
LA2CO33	0	0	0	0	0	0	0	0
LACOOH	0	0	0	0	0	0	0	0
LANO33	0	0	0	0	0	0	0	0
LEON	0	0	0	0	0	0	0	0
LIHCO3IN	0	0	0	0	0	0	0	0
LIHSO3IN	0	0	0	0	0	0	0	0
LINH2CO	0	0	0	0	0	0	0	0
MGCL2C	0	0	0	0	0	0	0	0
MGCL2S	0	0	0	0	0	0	0	0
MGCLHC	0	0	0	0	0	0	0	0
MGCLHS	0	0	0	0	0	0	0	0
MGHCO3	0	0	0	0	0	0	0	0
MGBCCA	0	0	0	0	0	0	0	0
MGBC2S	0	0	0	0	0	0	0	0
MGBCAM	0	0	0	0	0	0	0	0
MGHCO3	0	0	0	0	0	0	0	0
MGHCO3	0	0	0	0	0	0	0	0
MGBCSU	0	0	0	0	0	0	0	0
MGHCO3	0	0	0	0	0	0	0	0
MGHSO3	0	0	0	0	0	0	0	0
MGHSO4	0	0	0	0	0	0	0	0
MGAMCC	0	0	0	0	0	0	0	0
MGNO22	0	0	0	0	0	0	0	0
MN3AL2S	0	0	0	0	0	0	0	0
MNHCO3	0	0	0	0	0	0	0	0
MNHSO3	0	0	0	0	0	0	0	0
MNHSO4	0	0	0	0	0	0	0	0
MNAMCC	0	0	0	0	0	0	0	0
MNOHCL	0	0	0	0	0	0	0	0
MNOHHC	0	0	0	0	0	0	0	0
MNSO3IN	0	0	0	0	0	0	0	0
NA3HCO	0	0	0	0	0	0	0	0
NAFESIC	0	0	0	0	0	0	0	0
NAFPO4	0	0	0	0	0	0	0	0
NAH2BO	0	0	0	0	0	0	0	0
NAHSO3	0	0	0	0	0	0	0	0
NANH2C	0	0	0	0	0	0	0	0
NANH4S	0	0	0	0	0	0	0	0
NAPHILL	0	0	0	0	0	0	0	0
NAPHOH	0	0	0	0	0	0	0	0
NAZRF5	0	0	0	0	0	0	0	0
NH42CO	0	0	0	0	0	0	0	0
NH42SIF	0	0	0	0	0	0	0	0
NH43HS	0	0	0	0	0	0	0	0

NH43PO	0	0	0	0	0	0	0	0
NH4HSO	0	0	0	0	0	0	0	0
NH4MGS	0	0	0	0	0	0	0	0
NH4NISC	0	0	0	0	0	0	0	0
NH4OHIN	0	0	0	0	0	0	0	0
NICL2	0	0	0	0	0	0	0	0
NIF2IN	0	0	0	0	0	0	0	0
NIH2PO4	0	0	0	0	0	0	0	0
SRAC2	0	0	0	0	0	0	0	0
SRHSO3	0	0	0	0	0	0	0	0
SRHSO4	0	0	0	0	0	0	0	0
SRAMCC	0	0	0	0	0	0	0	0
THC2O42	0	0	0	0	0	0	0	0
TIIVCO32	0	0	0	0	0	0	0	0
TIIVHC34	0	0	0	0	0	0	0	0
TIIVSO42	0	0	0	0	0	0	0	0
CAMGS3	0	0	0	0	0	0	0	0
HYDCOR	0	0	0	0	0	0	0	0
MG2HD2	0	0	0	0	0	0	0	0
MG2SIO	0	0	0	0	0	0	0	0
MG3SIT	0	0	0	0	0	0	0	0
MGSIO3	0	0	0	0	0	0	0	0
NH4CR2	0	0	0	0	0	0	0	0
NH4CRO	0	0	0	0	0	0	0	0
AL2O3-S	0	0	0	0	0	0	0	0
ALOH3-S	0.040054	0.040058	0.03963	4.11E-04	0	0	0	0
AMCOOH	0	0	0	0	0	0	0	0
AMOH3-S	0	0	0	0	0	0	0	0
BA3PO4-	0	0	0	0	0	0	0	0
BACO3-S	0	0	0	0	0	0	0	0
BASO4-S	0	0	0	0	0	0	0	0
CA5OHP	4.01E-03	4.02E-03	3.97E-03	4.12E-05	0	0	0	0
CAO-S	0	0	0	0	0	0	0	0
CASIO3-S	0	0	0	0	0	0	0	0
CR2O3-S	5.72E-03	5.73E-03	5.67E-03	5.88E-05	0	0	0	0
FE2O3-S	0.170802	0.170806	0.169068	1.75E-03	0	0	0	0
KALSIO-S	0	0	0	0	0	0	0	0
LAF3-S	1.91E-03	1.91E-03	1.89E-03	1.96E-05	0	0	0	0
LAOH3-S	0	0	0	0	0	0	0	0
LOWALB	0.284932	0.284939	0.282027	2.92E-03	0	0	0	0
MGOH2-S	0	0	0	0	0	0	0	0
MNCO3-S	0.023332	0.023336	0.02309	2.40E-04	0	0	0	0
MNO-S	0	0	0	0	0	0	0	0
NA2CO4-	0	0	0	0	0	0	0	0
NA2UO7-	0	0	0	0	0	0	0	0
NA3FS4-S	0	0	0	0	0	0	0	0
NAF-S	0	0	0	0	0	0	0	0
NANO3-S	0	0	0	0	0	0	0	0
NIOH2-S	0	0	0	0	0	0	0	0
RUTILE-S	2.89E-03	2.89E-03	2.86E-03	2.97E-05	0	0	0	0
SIO2-S	0	0	0	0	0	0	0	0

SRCO3-S	0	0	0	0	0	0	0	0
THO2-S	3.86E-04	3.89E-04	3.85E-04	3.99E-06	0	0	0	0
ZRO2-S	0	0	0	0	0	0	0	0
ZRSIO4-S	4.06E-03	4.06E-03	4.02E-03	4.17E-05	0	0	0	0
OH-	1.60E-04	1.62E-04	1.60E-04	1.66E-06	0	0	0	0
AGACET	0	0	0	0	0	0	0	0
AGC2O4-	0	0	0	0	0	0	0	0
AGCL2-	0	0	0	0	0	0	0	0
AGCL3-2	0	0	0	0	0	0	0	0
AGCL4-3	0	0	0	0	0	0	0	0
AG+	0	0	0	0	0	0	0	0
AGNH32-	0	0	0	0	0	0	0	0
AGNO22-	0	0	0	0	0	0	0	0
AGOH2-	0	0	0	0	0	0	0	0
AGSO4-	0	0	0	0	0	0	0	0
ALACET2	0	3.27E-32	3.23E-32	3.36E-34	0	0	0	0
ALACET+	0	2.69E-24	2.66E-24	2.76E-26	0	0	0	0
ALF2+	2.14E-09	2.07E-09	2.05E-09	2.13E-11	0	0	0	0
ALF4-	4.05E-07	3.90E-07	3.86E-07	4.00E-09	0	0	0	0
ALF5-2	1.42E-07	1.36E-07	1.35E-07	1.40E-09	0	0	0	0
ALF6-3	9.99E-09	9.58E-09	9.48E-09	9.84E-11	0	0	0	0
ALF+2	0	1.12E-12	1.11E-12	1.15E-14	0	0	0	0
AL+3	0	3.66E-17	3.62E-17	3.75E-19	0	0	0	0
ALOH2+	9.54E-11	9.47E-11	9.37E-11	9.72E-13	0	0	0	0
ALOH4-	2.08E-05	2.11E-05	2.09E-05	2.17E-07	0	0	0	0
ALOHCL-	0	8.67E-16	8.58E-16	8.90E-18	0	0	0	0
ALOH+2	0	7.37E-14	7.29E-14	7.56E-16	0	0	0	0
ALSO42-	0	2.13E-22	2.10E-22	2.18E-24	0	0	0	0
ALSO4+	0	1.41E-19	1.40E-19	1.45E-21	0	0	0	0
AMCO32-	0	0	0	0	0	0	0	0
AMCO3+	0	0	0	0	0	0	0	0
AMHCO3	0	0	0	0	0	0	0	0
AMHCO3	0	0	0	0	0	0	0	0
AMC2O4	0	0	0	0	0	0	0	0
AMCO43-	0	0	0	0	0	0	0	0
AMC2O4-	0	0	0	0	0	0	0	0
AMCL2+	0	0	0	0	0	0	0	0
AMCL+2	0	0	0	0	0	0	0	0
AMF2+	0	0	0	0	0	0	0	0
AMIIIF+2	0	0	0	0	0	0	0	0
AMIII+3	0	0	0	0	0	0	0	0
AMOH2+	0	0	0	0	0	0	0	0
AMOH+2	0	0	0	0	0	0	0	0
AMSO42-	0	0	0	0	0	0	0	0
AMSO4+	0	0	0	0	0	0	0	0
AMNO32-	0	0	0	0	0	0	0	0
AMNO3+	0	0	0	0	0	0	0	0
B2OOH5-	0.018276	0.01836	0.018174	1.88E-04	0	0	0	0
B3O3OH4	0.048789	0.048823	0.048327	5.01E-04	0	0	0	0
B4O5H4-	2.58E-03	2.60E-03	2.58E-03	2.67E-05	0	0	0	0
BAACET-	0	7.95E-16	7.86E-16	8.16E-18	0	0	0	0

BACOOH	0	1.11E-15	1.10E-15	1.14E-17	0	0	0	0
BAF+	5.09E-10	5.12E-10	5.07E-10	5.26E-12	0	0	0	0
BAHCO3	0	5.77E-14	5.67E-14	5.92E-16	0	0	0	0
BA+2	1.96E-08	1.98E-08	1.96E-08	2.03E-10	0	0	0	0
BAOH+	0	5.66E-13	5.60E-13	5.81E-15	0	0	0	0
BF2OH2-	5.23E-06	5.14E-06	5.09E-06	5.28E-08	0	0	0	0
BF3OH-2	2.70E-11	2.62E-11	2.59E-11	2.69E-13	0	0	0	0
BF4-	0	9.08E-16	8.99E-16	9.32E-18	0	0	0	0
BFOH3-	1.51E-03	1.51E-03	1.49E-03	1.55E-05	0	0	0	0
BOH4-	0.171532	0.173034	0.171289	1.78E-03	0	0	0	0
CAACET	0	8.89E-13	8.79E-13	9.12E-15	0	0	0	0
CACL+	1.28E-10	1.27E-10	1.25E-10	1.30E-12	0	0	0	0
CACOOH	0	1.52E-12	1.50E-12	1.56E-14	0	0	0	0
CAF+	3.08E-07	3.05E-07	3.02E-07	3.14E-09	0	0	0	0
CAH2BO	4.54E-05	4.54E-05	4.50E-05	4.66E-07	0	0	0	0
CAH2PO	5.26E-09	5.19E-09	5.13E-09	5.32E-11	0	0	0	0
CAHC2O	0	6.76E-16	6.65E-16	6.94E-18	0	0	0	0
CAHCO3	1.61E-07	1.60E-07	1.57E-07	1.64E-09	0	0	0	0
CAHSIO3	2.47E-11	2.48E-11	2.45E-11	2.54E-13	0	0	0	0
CA+2	2.22E-04	2.21E-04	2.19E-04	2.27E-06	0	0	0	0
CANO3+	7.33E-06	7.34E-06	7.26E-06	7.53E-08	0	0	0	0
CAOH+	1.94E-08	1.95E-08	1.93E-08	2.00E-10	0	0	0	0
CAPO4-	9.91E-06	9.95E-06	9.85E-06	1.02E-07	0	0	0	0
CL-	0.177094	0.177094	0.17528	1.82E-03	0	0	0	0
CO3-2	5.16E-05	5.20E-05	5.12E-05	5.34E-07	0	0	0	0
COACET	0	0	0	0	0	0	0	0
COACET	0	0	0	0	0	0	0	0
COCOOH	0	0	0	0	0	0	0	0
COCO42	0	0	0	0	0	0	0	0
COCO43	0	0	0	0	0	0	0	0
COCL+	0	0	0	0	0	0	0	0
COII+2	0	0	0	0	0	0	0	0
CONH32	0	0	0	0	0	0	0	0
CONH33	0	0	0	0	0	0	0	0
CONH34	0	0	0	0	0	0	0	0
CONH35	0	0	0	0	0	0	0	0
CONH36	0	0	0	0	0	0	0	0
CONH3+	0	0	0	0	0	0	0	0
COIINO3	0	0	0	0	0	0	0	0
COIIOH3	0	0	0	0	0	0	0	0
COIOH4-	0	0	0	0	0	0	0	0
COIIOH+	0	0	0	0	0	0	0	0
COOH-	1.21E-08	1.22E-08	1.21E-08	1.26E-10	0	0	0	0
CR2O7-2	0	1.32E-21	1.30E-21	1.35E-23	0	0	0	0
CRF+2	0	1.10E-12	1.09E-12	1.13E-14	0	0	0	0
CRIIICL+	0	1.10E-23	1.09E-23	1.13E-25	0	0	0	0
CRICL+2	0	8.44E-21	8.35E-21	8.67E-23	0	0	0	0
CRH2PO	0	3.59E-20	3.55E-20	3.68E-22	0	0	0	0
CRIHPO4	1.98E-10	1.92E-10	1.90E-10	1.97E-12	0	0	0	0
CRIII+3	0	6.73E-20	6.66E-20	6.91E-22	0	0	0	0
CRNO3+	0	2.50E-18	2.47E-18	2.56E-20	0	0	0	0

CRO4-2	1.33E-09	1.35E-09	1.34E-09	1.39E-11	0	0	0	0
CROH2+	0	2.29E-13	2.26E-13	2.35E-15	0	0	0	0
CROH4-	0	2.12E-14	2.10E-14	2.18E-16	0	0	0	0
CROH+2	0	9.03E-15	8.93E-15	9.27E-17	0	0	0	0
CRSO4+	0	1.69E-17	1.68E-17	1.74E-19	0	0	0	0
CS+	3.06E-04	3.07E-04	3.03E-04	3.15E-06	0	0	0	0
CSSO4-	2.27E-08	2.27E-08	2.24E-08	2.33E-10	0	0	0	0
FE2OH2+	0	0	0	0	0	0	0	0
FEC2O42	0	8.78E-25	8.59E-25	9.02E-27	0	0	0	0
FECO43-	0	3.29E-29	3.20E-29	3.38E-31	0	0	0	0
FEC2O4+	0	1.02E-21	1.00E-21	1.05E-23	0	0	0	0
FECL2+	0	3.37E-28	3.34E-28	3.46E-30	0	0	0	0
FECL4-	0	0	0	0	0	0	0	0
FECL+2	0	2.11E-26	2.08E-26	2.16E-28	0	0	0	0
FEIIIF2+	0	7.74E-21	7.66E-21	7.95E-23	0	0	0	0
FEF+2	0	1.71E-22	1.70E-22	1.76E-24	0	0	0	0
FEH2PO-	0	1.01E-25	9.99E-26	1.04E-27	0	0	0	0
FEHCO4-	0	7.85E-33	7.72E-33	8.06E-35	0	0	0	0
FEHPO4-	0	1.23E-19	1.21E-19	1.26E-21	0	0	0	0
FEIII+3	0	2.36E-23	2.33E-23	2.42E-25	0	0	0	0
FENO3+2	0	4.67E-27	4.62E-27	4.79E-29	0	0	0	0
FEOH2+	0	7.56E-14	7.48E-14	7.76E-16	0	0	0	0
FEIIOH4-	6.30E-11	6.38E-11	6.31E-11	6.55E-13	0	0	0	0
FEOH+2	0	2.02E-17	2.00E-17	2.08E-19	0	0	0	0
FEIISO4+	0	1.38E-26	1.37E-26	1.42E-28	0	0	0	0
F-	0.18214	0.182152	0.18029	1.87E-03	0	0	0	0
H2P2O7-	1.47E-10	1.44E-10	1.42E-10	1.48E-12	0	0	0	0
H2PO4-	3.59E-04	3.56E-04	3.52E-04	3.65E-06	0	0	0	0
H2SBO4-	0	0	0	0	0	0	0	0
H2SIO4-2	1.20E-11	1.23E-11	1.22E-11	1.26E-13	0	0	0	0
H3P2O7-	0	1.19E-16	1.18E-16	1.22E-18	0	0	0	0
H3SIO4-	4.72E-07	4.77E-07	4.72E-07	4.90E-09	0	0	0	0
HCO3-	2.67E-03	2.67E-03	2.63E-03	2.74E-05	0	0	0	0
HCRO4-	2.09E-11	2.09E-11	2.07E-11	2.15E-13	0	0	0	0
HF2-	6.47E-09	6.39E-09	6.32E-09	6.56E-11	0	0	0	0
H+	1.75E-07	1.74E-07	1.72E-07	1.79E-09	0	0	0	0
HOXALA-	0	2.32E-12	2.28E-12	2.38E-14	0	0	0	0
HP2O7-3	1.66E-08	1.65E-08	1.63E-08	1.69E-10	0	0	0	0
HPO4-2	6.78E-03	6.80E-03	6.73E-03	6.98E-05	0	0	0	0
HSBO4-2	0	0	0	0	0	0	0	0
HSEO4-	0	0	0	0	0	0	0	0
HSIF6-	0	1.40E-31	1.39E-31	1.44E-33	0	0	0	0
HSO3-	6.50E-03	6.43E-03	6.36E-03	6.60E-05	0	0	0	0
HSO4-	6.14E-10	6.07E-10	6.01E-10	6.24E-12	0	0	0	0
HZRF6-	0	4.24E-27	4.20E-27	4.36E-29	0	0	0	0
K+	0.057628	0.057654	0.057069	5.92E-04	0	0	0	0
KSO4-	8.93E-06	8.90E-06	8.81E-06	9.14E-08	0	0	0	0
LAACET2	0	5.16E-29	5.11E-29	5.30E-31	0	0	0	0
LAACET+	0	4.82E-21	4.77E-21	4.95E-23	0	0	0	0
LACL2+	0	1.04E-18	1.03E-18	1.07E-20	0	0	0	0
LACL4-	0	4.19E-24	4.15E-24	4.30E-26	0	0	0	0

LACL+2	0	5.49E-16	5.43E-16	5.64E-18	0	0	0	0
LACO3+	0	8.07E-14	7.94E-14	8.29E-16	0	0	0	0
LACOOH	0	4.22E-29	4.17E-29	4.33E-31	0	0	0	0
LACOOH	0	3.45E-21	3.41E-21	3.54E-23	0	0	0	0
LAF2+	5.72E-12	5.75E-12	5.69E-12	5.90E-14	0	0	0	0
LAF4-	0	2.31E-13	2.29E-13	2.37E-15	0	0	0	0
LAF+2	0	2.94E-12	2.91E-12	3.02E-14	0	0	0	0
LAHPO4+	0	7.86E-17	7.77E-17	8.07E-19	0	0	0	0
LAHCO3-	0	3.30E-16	3.24E-16	3.38E-18	0	0	0	0
LA+3	0	6.88E-14	6.81E-14	7.06E-16	0	0	0	0
LANO3+2	0	7.57E-16	7.49E-16	7.77E-18	0	0	0	0
LAOH2+	0	1.40E-14	1.39E-14	1.44E-16	0	0	0	0
LAOH4-	0	4.08E-19	4.04E-19	4.19E-21	0	0	0	0
LAOH+2	0	7.99E-14	7.91E-14	8.20E-16	0	0	0	0
LASO42-	0	5.99E-19	5.92E-19	6.14E-21	0	0	0	0
LASO4+	0	1.33E-15	1.31E-15	1.36E-17	0	0	0	0
LI+	0.23953	0.239616	0.237159	2.46E-03	0	0	0	0
LISO4-	5.95E-06	5.93E-06	5.87E-06	6.09E-08	0	0	0	0
MGACET	0	9.12E-16	9.02E-16	9.36E-18	0	0	0	0
MGCO42	0	9.33E-22	9.13E-22	9.58E-24	0	0	0	0
MGACE+	0	7.18E-16	7.11E-16	7.37E-18	0	0	0	0
MGF+	3.27E-11	3.29E-11	3.26E-11	3.38E-13	0	0	0	0
MGH2PO	0	1.34E-12	1.32E-12	1.37E-14	0	0	0	0
MGHCO3	2.34E-10	2.35E-10	2.31E-10	2.41E-12	0	0	0	0
MGHSIO3	0	2.46E-14	2.43E-14	2.52E-16	0	0	0	0
MG+2	1.36E-07	1.37E-07	1.36E-07	1.41E-09	0	0	0	0
MGOH+	9.52E-11	9.70E-11	9.61E-11	9.96E-13	0	0	0	0
MGP2O7-	3.45E-11	3.48E-11	3.45E-11	3.57E-13	0	0	0	0
MGPO4-	4.64E-09	4.73E-09	4.68E-09	4.86E-11	0	0	0	0
MNACET	0	4.32E-29	4.30E-29	4.43E-31	0	0	0	0
MNACET	6.94E-12	6.98E-12	6.94E-12	7.16E-14	0	0	0	0
MNCO42-	0	4.16E-16	4.10E-16	4.27E-18	0	0	0	0
MNCO43-	0	5.60E-23	5.48E-23	5.75E-25	0	0	0	0
MNCL+	1.96E-05	1.95E-05	1.94E-05	2.00E-07	0	0	0	0
MNCOOH	1.17E-11	1.17E-11	1.17E-11	1.20E-13	0	0	0	0
MN+2	1.08E-03	1.07E-03	1.07E-03	1.10E-05	0	0	0	0
MNNO3+	2.19E-05	2.20E-05	2.19E-05	2.26E-07	0	0	0	0
MNOH3-	0	1.78E-12	1.77E-12	1.82E-14	0	0	0	0
MNOH4-2	0	4.73E-17	4.71E-17	4.86E-19	0	0	0	0
MNOH+	2.56E-05	2.58E-05	2.57E-05	2.65E-07	0	0	0	0
NA2F+	1.21E-06	1.20E-06	1.19E-06	1.24E-08	0	0	0	0
NACO3-	1.20E-06	1.21E-06	1.19E-06	1.24E-08	0	0	0	0
NA+	0.553371	0.553813	0.548141	5.68E-03	0	0	0	0
NASO4-	7.88E-05	7.87E-05	7.78E-05	8.07E-07	0	0	0	0
NH2CO2-	2.15E-05	2.19E-05	2.16E-05	2.25E-07	0	0	0	0
NH4+	0.457213	0.463159	0.458372	4.75E-03	0	0	0	0
NH4SO4-	1.15E-04	1.17E-04	1.15E-04	1.20E-06	0	0	0	0
NIACET3	0	2.41E-33	2.38E-33	2.47E-35	0	0	0	0
NIACET+	0	3.43E-16	3.39E-16	3.52E-18	0	0	0	0
NICO42-2	0	1.00E-18	9.81E-19	1.03E-20	0	0	0	0
NICL+	1.92E-11	1.89E-11	1.87E-11	1.94E-13	0	0	0	0

NICOOH-	0	5.25E-16	5.20E-16	5.39E-18	0	0	0	0
NIF+	8.79E-10	8.64E-10	8.55E-10	8.87E-12	0	0	0	0
NI+2	4.19E-08	4.13E-08	4.09E-08	4.24E-10	0	0	0	0
NINH32+	6.74E-08	6.91E-08	6.84E-08	7.10E-10	0	0	0	0
NINH33+	1.31E-08	1.37E-08	1.36E-08	1.41E-10	0	0	0	0
NINH34+	7.18E-10	7.67E-10	7.59E-10	7.87E-12	0	0	0	0
NINH35+	1.39E-11	1.52E-11	1.50E-11	1.56E-13	0	0	0	0
NINH36+	0	5.45E-14	5.40E-14	5.60E-16	0	0	0	0
NINH3+2	1.03E-07	1.04E-07	1.02E-07	1.06E-09	0	0	0	0
NINO3+	9.45E-10	9.37E-10	9.27E-10	9.62E-12	0	0	0	0
NIOH3-	0	1.12E-12	1.11E-12	1.15E-14	0	0	0	0
NIOH+	1.71E-09	1.70E-09	1.68E-09	1.75E-11	0	0	0	0
NO2-	5.31E-07	5.37E-07	5.31E-07	5.51E-09	0	0	0	0
NO3-	0.525278	0.530014	0.524537	5.44E-03	0	0	0	0
ACET-	1.83E-08	1.85E-08	1.83E-08	1.90E-10	0	0	0	0
OXALAT-	4.12E-08	4.19E-08	4.12E-08	4.30E-10	0	0	0	0
P2O7-4	6.28E-09	6.30E-09	6.24E-09	6.47E-11	0	0	0	0
PO4-3	2.10E-06	2.12E-06	2.10E-06	2.18E-08	0	0	0	0
S2O5-2	5.33E-11	5.21E-11	5.15E-11	5.35E-13	0	0	0	0
SBO4-3	0	0	0	0	0	0	0	0
SBOH6-	0	0	0	0	0	0	0	0
SEO4-2	0	0	0	0	0	0	0	0
SIF6-2	0	2.67E-25	2.64E-25	2.74E-27	0	0	0	0
SO3-2	0.077966	0.078031	0.077231	8.01E-04	0	0	0	0
SO4-2	6.42E-04	6.41E-04	6.34E-04	6.58E-06	0	0	0	0
SRACET-	0	2.28E-16	2.25E-16	2.34E-18	0	0	0	0
SRCOOH	0	2.65E-16	2.62E-16	2.72E-18	0	0	0	0
SRF+	2.53E-10	2.55E-10	2.52E-10	2.62E-12	0	0	0	0
SRHC2O	0	5.48E-20	5.40E-20	5.63E-22	0	0	0	0
SR+2	3.48E-08	3.51E-08	3.47E-08	3.60E-10	0	0	0	0
SRNO3+	2.55E-09	2.59E-09	2.56E-09	2.66E-11	0	0	0	0
SROH+	0	1.25E-12	1.23E-12	1.28E-14	0	0	0	0
SRPO4-	2.22E-11	2.26E-11	2.24E-11	2.32E-13	0	0	0	0
TH2OH2+	0	0	0	0	0	0	0	0
THCO43-	0	0	0	0	0	0	0	0
THCO44-	0	0	0	0	0	0	0	0
THC2O4+	0	1.15E-29	1.13E-29	1.18E-31	0	0	0	0
THCL2+2	0	1.55E-33	1.53E-33	1.59E-35	0	0	0	0
THCL3+	0	0	0	0	0	0	0	0
THCL+3	0	1.29E-31	1.27E-31	1.32E-33	0	0	0	0
THF2+2	0	3.02E-22	2.99E-22	3.10E-24	0	0	0	0
THF3+	0	1.38E-20	1.37E-20	1.42E-22	0	0	0	0
THF+3	0	2.88E-25	2.85E-25	2.95E-27	0	0	0	0
THH2PH-	0	1.45E-29	1.43E-29	1.49E-31	0	0	0	0
THH2PO-	0	5.73E-29	5.66E-29	5.88E-31	0	0	0	0
THC2O4+	0	0	0	0	0	0	0	0
THHPO4-	6.96E-05	6.70E-05	6.63E-05	6.88E-07	0	0	0	0
THHPO4-	0	2.67E-24	2.64E-24	2.74E-26	0	0	0	0
TH+4	0	5.29E-30	5.23E-30	5.43E-32	0	0	0	0
THNO32+	0	0	0	0	0	0	0	0
THNO33+	0	0	0	0	0	0	0	0

THNO3+3	0	1.41E-31	1.40E-31	1.45E-33	0	0	0	0
THOH2+2	0	5.34E-21	5.28E-21	5.48E-23	0	0	0	0
THOH3+	0	6.57E-18	6.50E-18	6.75E-20	0	0	0	0
THOH+3	0	4.28E-26	4.23E-26	4.39E-28	0	0	0	0
THSO43-	0	0	0	0	0	0	0	0
THSO44-	0	0	0	0	0	0	0	0
THSO4+2	0	3.57E-30	3.53E-30	3.66E-32	0	0	0	0
TIVCL2+2	0	0	0	0	0	0	0	0
TIIVCL3+	0	0	0	0	0	0	0	0
TIIVCL+3	0	0	0	0	0	0	0	0
TIVCO3+	0	0	0	0	0	0	0	0
TIIVF2+2	0	0	0	0	0	0	0	0
TIIVF3+	0	1.14E-29	1.13E-29	1.17E-31	0	0	0	0
TIIVF+3	0	0	0	0	0	0	0	0
TIHCO3+	0	0	0	0	0	0	0	0
TIIV+4	0	0	0	0	0	0	0	0
TIVOH2+	0	3.17E-28	3.14E-28	3.25E-30	0	0	0	0
TIIVOH3+	0	8.21E-22	8.12E-22	8.42E-24	0	0	0	0
TIIVOH+3	0	0	0	0	0	0	0	0
TIVSO4+	0	0	0	0	0	0	0	0
UO2HD2-	0	4.21E-17	4.26E-17	4.32E-19	0	0	0	0
UO2HD5-	0	9.32E-17	9.54E-17	9.56E-19	0	0	0	0
UO2AC3-	0	0	0	0	0	0	0	0
UO2AC+	0	3.91E-20	3.91E-20	4.01E-22	0	0	0	0
UOCO42-	0	4.08E-22	4.04E-22	4.19E-24	0	0	0	0
UOCO43-	0	3.91E-27	3.85E-27	4.02E-29	0	0	0	0
UO2CL+	0	1.23E-15	1.23E-15	1.26E-17	0	0	0	0
UO2CO3-	3.47E-08	3.51E-08	3.47E-08	3.60E-10	0	0	0	0
UO2CO3-	6.02E-09	6.13E-09	6.04E-09	6.30E-11	0	0	0	0
UO2F3-	2.30E-09	2.28E-09	2.28E-09	2.34E-11	0	0	0	0
UO2F4-2	2.20E-10	2.18E-10	2.18E-10	2.23E-12	0	0	0	0
UO2F+	6.13E-11	6.11E-11	6.12E-11	6.27E-13	0	0	0	0
UO2+2	0	1.23E-13	1.23E-13	1.26E-15	0	0	0	0
UO2OH+	2.00E-10	2.02E-10	2.02E-10	2.07E-12	0	0	0	0
UO2SO4-	0	1.53E-18	1.53E-18	1.57E-20	0	0	0	0
ZRC2O4+	0	2.88E-31	2.83E-31	2.96E-33	0	0	0	0
ZRCL2+2	0	0	0	0	0	0	0	0
ZRCL3+	0	0	0	0	0	0	0	0
ZRCL+3	0	0	0	0	0	0	0	0
ZRF2+2	0	1.31E-20	1.30E-20	1.35E-22	0	0	0	0
ZRF3+	0	1.89E-17	1.87E-17	1.94E-19	0	0	0	0
ZRF5-	0	3.70E-21	3.66E-21	3.80E-23	0	0	0	0
ZRF6-2	0	4.19E-20	4.14E-20	4.30E-22	0	0	0	0
ZRF+3	0	1.68E-25	1.66E-25	1.73E-27	0	0	0	0
ZR+4	0	0	0	0	0	0	0	0
ZRNO32+	0	0	0	0	0	0	0	0
ZRNO3+3	0	0	0	0	0	0	0	0
ZROH2+2	0	6.89E-20	6.81E-20	7.07E-22	0	0	0	0
ZROH3+	0	2.37E-15	2.35E-15	2.44E-17	0	0	0	0
ZROH5-	3.24E-09	3.29E-09	3.26E-09	3.38E-11	0	0	0	0
ZROH+3	0	1.19E-25	1.17E-25	1.22E-27	0	0	0	0

ZRSO4+2	0	0	0	0	0	0	0	0
Total Flow	1002.367	1004.982	994.6658	10.31597	0	116.7269	116.1865	109.2894
Total Flow	18268.16	18315.62	18127.61	188.0068	0	3127.256	3103.473	2993.178
Total Flow	18.31089	18.35845	18.17	0.188447	0	4441.644	4421.095	3380.571
Temperatu	50	49.99305	49.99305	49.99305		169.9146	169.9146	49.99858
Pressure	0.868	0.868	0.868	0.868		0.968	0.968	0.868
Vapor Frac	0	0	0	0		1	1	1
Liquid Frac	0.999463	0.999465	0.999465	0.999465		0	0	0
Solid Frac	5.37E-04	5.35E-04	5.35E-04	5.35E-04		0	0	0
Enthalpy	-2.86E+05	-2.86E+05	-2.86E+05	-2.86E+05		-45018.9	-43423.8	-35558.2
Enthalpy	-15717.2	-15717	-15717	-15717		-1680.36	-1625.68	-1298.33
Enthalpy	-287.124	-287.866	-284.912	-2.9549		-5.25491	-5.04526	-3.88614
Entropy	76.22042	76.21944	76.21945	76.21944		205.8505	205.7378	197.4644
Entropy	4.182187	4.182177	4.182177	4.182177		7.683508	7.702326	7.209986
Density	54.74161	54.7422	54.74219	54.7422		0.02628	0.02628	0.032329
Density	997.6665	997.667	997.667	997.667		0.704076	0.70197	0.885406
Average M	18.22501	18.22483	18.22483	18.22483		26.79121	26.71113	27.38762
Liq Vol 60F					0	5.436347	5.407405	

GAS-OUT2	HEME-IN	LIQ-OUT	MTGAS1	MTGAS2	PJM-IN	PJM-OUT	SOLID-IN	WESP-IN
MTMIX	VSLMIX		MTHTRAN	MTMIX	PJM		SCB12	VSLMIX
SCB12		VSLENT	MTSPLIT	MTHTRANS		PJM		
VAPOR	LIQUID	MIXED	VAPOR	VAPOR	VAPOR	VAPOR	MIXED	MIXED
15.52489	2.25916	10.27046	0	0	1.874052	1.874052	0.243619	0.33983
0	2.08E-10	7.73E-14	0	0	0	0	0	0
0.010738	4.68E-09	2.96E-07	0.5404	0.5404	0	0	0	0
0	4.07E-33	0	0	0	0	0	0	0
0	1.74E-21	1.16E-19	0	0	0	0	0	0
0	3.11E-26	1.11E-33	0	0	0	0	0	0
0	7.56E-25	1.24E-30	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	9.00E-17	3.00E-17	0	0	0	0	0	0
0	1.32E-10	5.11E-15	0	0	0	0	0	0
3.68E-09	1.45E-09	2.42E-08	0	0	0	0	0	8.37E-19
9.37E-12	5.43E-09	3.44E-14	0	0	0	0	0	8.79E-21
0	2.70E-08	2.24E-15	0	0	0	0	0	0
7.59E-07	0	1.63E-10	0	0	0	0	0	0
73.45352	3.53E-15	5.37E-05	0	0	104.1057	104.1057	0	0
0.044608	2.50E-12	1.38E-03	0	0	0	0	0	0.01029
9.00E-03	0	4.97E-06	0	0	0	0	0	0
0.098881	0	2.13E-07	0	0	0	0	0	0
19.6074	0	2.63E-05	0	0	27.67359	27.67359	0	0
0	0	0	0	0	0	0	0	0
0	9.41E-32	6.09E-31	0	0	0	0	0	0
5.35E-08	0	3.83E-11	0	0	0	0	0	0
0	1.32E-28	2.36E-34	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	5.53E-26	3.17E-09	0	0	0	0	0	0
0	1.72E-28	4.11E-23	0	0	0	0	0	0
0	2.76E-28	1.11E-14	0	0	0	0	6.35E-16	1.11E-12
0	8.85E-24	2.47E-30	0	0	0	0	0	0
0	5.43E-19	3.34E-08	0	0	0	0	7.21E-11	1.03E-12
0	6.56E-19	7.78E-10	0	0	0	0	1.45E-12	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1.96E-23	5.54E-13	0	0	0	0	1.08E-14	1.67E-14
0	5.75E-22	2.68E-15	0	0	0	0	0	0
0	3.32E-18	1.07E-08	0	0	0	0	0	0
0	1.15E-10	8.38E-08	0	0	0	0	0	0
0	2.26E-33	1.05E-33	0	0	0	0	0	0
0	3.78E-28	3.66E-23	0	0	0	0	0	0
0	4.47E-16	2.37E-12	0	0	0	0	4.61E-14	6.95E-14
0	0	0	0	0	0	0	0	0

0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	4.46E-08	4.31E-12	0	0	0	0	3.35E-16	3.27E-21
0	0	0	0	0	0	0	0	0
0	1.62E-16	3.28E-25	0	0	0	0	1.02E-31	0
0	0	9.27E-29	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1.82E-20	1.81E-09	0	0	0	0	0	0
0	0	1.79E-30	0	0	0	0	0	0
0	4.28E-19	2.34E-09	0	0	0	0	4.62E-11	6.43E-12
0	0	0	0	0	0	0	0	0
0	2.83E-20	2.53E-13	0	0	0	0	0	0
0	7.89E-18	5.08E-08	0	0	0	0	0	0
0	3.16E-19	2.85E-13	0	0	0	0	0	0
0	8.17E-21	3.49E-16	0	0	0	0	2.11E-17	0
0	0	0	0	0	0	0	0	0
0	0	2.19E-23	0	0	0	0	0	0
0	1.97E-31	1.93E-14	0	0	0	0	0	0
0	2.80E-33	2.74E-17	0	0	0	0	3.50E-15	5.13E-15
0	4.92E-19	2.76E-12	0	0	0	0	0	0
0	1.85E-18	2.75E-05	0	0	0	0	3.56E-04	3.85E-06
0	3.87E-19	3.81E-08	0	0	0	0	5.81E-07	7.93E-06
0	1.75E-32	2.44E-26	0	0	0	0	0	0
0	1.20E-17	3.83E-14	0	0	0	0	0	0
0	2.09E-28	7.71E-13	0	0	0	0	0	0
0	1.01E-30	1.42E-26	0	0	0	0	0	0
0	2.50E-29	6.60E-17	0	0	0	0	0	0
0	2.42E-20	1.21E-10	0	0	0	0	0	0
0	1.37E-20	1.06E-12	0	0	0	0	0	0
0	1.65E-30	2.79E-22	0	0	0	0	0	0
0	3.41E-14	7.99E-09	0	0	0	0	0	0
0	2.80E-28	4.76E-22	0	0	0	0	0	0
0	2.61E-09	1.16E-08	0	0	0	0	0	0
0	2.43E-27	1.11E-10	0	0	0	0	1.26E-07	2.09E-07
0	0	0	0	0	0	0	0	0
0	2.48E-18	2.14E-08	0	0	0	0	8.45E-08	0
0	1.85E-13	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	8.79E-19	3.08E-12	0	0	0	0	0	0
0	2.36E-18	2.17E-05	0	0	0	0	2.95E-04	6.67E-06
0	7.28E-18	2.58E-12	0	0	0	0	0	0
0	1.83E-16	2.52E-05	0	0	0	0	0	1.41E-11
0	6.42E-19	3.35E-07	0	0	0	0	0	0
0	7.69E-18	3.05E-09	0	0	0	0	5.24E-09	1.32E-07
0	5.05E-08	3.44E-05	0	0	0	0	0	0
0	1.00E-32	2.12E-26	0	0	0	0	0	0
0	1.68E-16	5.88E-12	0	0	0	0	0	0
0	1.56E-04	9.56E-04	0	0	0	0	0	0

0	3.64E-32	1.20E-26	0	0	0	0	0	0
0	8.95E-15	4.44E-12	0	0	0	0	0	0
0	6.77E-30	2.25E-26	0	0	0	0	0	0
0	3.84E-26	3.22E-12	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	4.63E-20	8.83E-13	0	0	0	0	0	0
0	0	9.50E-20	0	0	0	0	0	0
0	1.65E-30	3.52E-26	0	0	0	0	0	0
0	9.09E-22	1.78E-18	0	0	0	0	0	0
0	7.53E-11	3.18E-21	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1.78E-23	1.62E-15	0	0	0	0	0	0
0	1.27E-05	0.011335	0	0	0	0	1.89E-04	2.29E-07
0	1.37E-06	5.79E-08	0	0	0	0	1.22E-10	1.61E-10
0	3.45E-30	8.12E-23	0	0	0	0	0	0
0	1.10E-16	4.38E-12	0	0	0	0	0	0
0	1.56E-19	7.68E-16	0	0	0	0	0	0
0	2.70E-31	6.93E-27	0	0	0	0	0	0
0	1.02E-26	2.97E-34	0	0	0	0	0	0
0	8.96E-23	6.83E-13	0	0	0	0	0	0
0	1.29E-11	8.59E-13	0	0	0	0	0	0
0	3.49E-21	3.87E-13	0	0	0	0	0	0
0	6.39E-31	6.46E-22	0	0	0	0	0	0
0	3.18E-16	8.75E-19	0	0	0	0	2.74E-25	0
0	3.27E-12	0	0	0	0	0	0	0
0	2.38E-21	3.85E-14	0	0	0	0	7.45E-16	1.18E-15
0	4.79E-27	5.18E-33	0	0	0	0	0	0
0	0	1.38E-25	0	0	0	0	0	0
0	5.96E-30	4.00E-27	0	0	0	0	0	0
0	5.22E-18	4.92E-17	0	0	0	0	9.53E-19	1.31E-18
0	3.57E-26	7.47E-32	0	0	0	0	0	0
0	1.23E-29	4.64E-29	0	0	0	0	0	0
0	1.34E-15	8.14E-18	0	0	0	0	0	0
0	1.64E-27	3.79E-21	0	0	0	0	0	0
0	3.18E-22	3.62E-12	0	0	0	0	0	0
0	1.52E-21	1.14E-11	0	0	0	0	0	0
0	8.28E-20	2.11E-17	0	0	0	0	0	0
0	1.07E-13	1.46E-32	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1.64E-22	4.75E-17	0	0	0	0	0	0
0	6.57E-17	1.85E-13	0	0	0	0	7.41E-15	1.18E-14
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0	0	4.11E-04	0	0	0	0	4.10E-04	0
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0	0	4.12E-05	0	0	0	0	4.06E-05	8.19E-07
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0	0	5.88E-05	0	0	0	0	4.97E-05	8.56E-06
0	0	1.75E-03	0	0	0	0	1.73E-03	4.50E-06
0	0	0	0	0	0	0	0	0
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0	0	2.92E-03	0	0	0	0	2.92E-03	6.35E-06
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0	0	0	0	0	0	0	1.44E-04	6.94E-07
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0	1.11E-08	2.97E-05	0	0	0	0	2.38E-05	5.66E-06
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0	0	3.99E-06	0	0	0	0	4.67E-06	1.04E-08
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0	0	4.17E-05	0	0	0	0	0	0
0	2.04E-14	1.66E-06	0	0	0	0	1.72E-06	3.31E-04
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0	4.27E-28	3.36E-34	0	0	0	0	0	0
0	4.73E-17	2.76E-26	0	0	0	0	0	0
0	1.16E-14	2.13E-11	0	0	0	0	0	0
0	8.53E-28	4.00E-09	0	0	0	0	0	0
0	0	1.40E-09	0	0	0	0	0	0
0	0	9.84E-11	0	0	0	0	0	0
0	4.16E-10	1.15E-14	0	0	0	0	0	1.05E-33
0	6.12E-07	3.75E-19	0	0	0	0	1.95E-23	5.75E-33
0	3.53E-15	9.72E-13	0	0	0	0	1.10E-15	4.63E-19
0	2.32E-24	2.17E-07	0	0	0	0	2.73E-07	3.76E-06
0	7.88E-19	8.90E-18	0	0	0	0	0	0
0	5.76E-11	7.56E-16	0	0	0	0	1.12E-19	6.41E-26
0	5.46E-28	2.18E-24	0	0	0	0	3.39E-29	0
0	2.76E-17	1.45E-21	0	0	0	0	5.56E-27	0
0	0	0	0	0	0	0	0	0
0	2.31E-28	0	0	0	0	0	0	0
0	1.37E-30	0	0	0	0	0	0	0
0	2.43E-21	0	0	0	0	0	0	0
0	6.10E-29	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1.28E-20	0	0	0	0	0	0	0
0	1.79E-29	0	0	0	0	0	0	0
0	3.46E-21	0	0	0	0	0	0	0
0	3.24E-28	0	0	0	0	0	0	0
0	1.42E-20	0	0	0	0	0	0	0
0	6.93E-14	0	0	0	0	0	0	0
0	2.64E-26	0	0	0	0	0	0	0
0	8.61E-21	0	0	0	0	0	0	0
0	3.21E-31	0	0	0	0	0	0	0
0	6.81E-23	0	0	0	0	0	0	0
0	3.76E-15	0	0	0	0	0	0	0
0	2.53E-14	0	0	0	0	0	0	0
0	6.36E-17	1.88E-04	0	0	0	0	1.79E-04	1.55E-08
0	1.00E-18	5.01E-04	0	0	0	0	4.08E-04	2.80E-11
0	2.54E-29	2.67E-05	0	0	0	0	2.73E-03	6.85E-12
0	5.25E-21	8.16E-18	0	0	0	0	0	0

0	7.33E-20	1.14E-17	0	0	0	0	0	0
0	8.44E-20	5.26E-12	0	0	0	0	0	0
0	2.53E-24	5.92E-16	0	0	0	0	0	0
0	2.10E-10	2.03E-10	0	0	0	0	0	0
0	2.06E-22	5.81E-15	0	0	0	0	0	0
0	4.04E-19	5.28E-08	0	0	0	0	0	8.42E-27
0	6.43E-25	2.69E-13	0	0	0	0	0	0
0	6.56E-30	9.32E-18	0	0	0	0	0	0
0	3.65E-16	1.55E-05	0	0	0	0	0	2.22E-15
0	1.26E-13	1.78E-03	0	0	0	0	1.55E-03	2.28E-04
0	4.96E-19	9.12E-15	0	0	0	0	0	0
0	7.95E-20	1.30E-12	0	0	0	0	0	0
0	8.48E-18	1.56E-14	0	0	0	0	0	0
0	3.26E-18	3.14E-09	0	0	0	0	0	6.46E-19
0	9.88E-18	4.66E-07	0	0	0	0	1.14E-08	5.73E-11
0	1.48E-14	5.32E-11	0	0	0	0	6.39E-15	2.61E-19
0	3.54E-15	6.94E-18	0	0	0	0	0	0
0	5.10E-19	1.64E-09	0	0	0	0	0	0
0	1.07E-19	2.54E-13	0	0	0	0	8.17E-16	4.17E-15
0	1.95E-07	2.27E-06	0	0	0	0	6.65E-09	7.48E-11
0	2.49E-08	7.53E-08	0	0	0	0	0	0
0	6.10E-19	2.00E-10	0	0	0	0	5.84E-12	3.69E-11
0	9.56E-26	1.02E-07	0	0	0	0	1.50E-08	2.04E-08
0	4.91E-10	1.82E-03	0	0	0	0	0	0
0	4.15E-23	5.34E-07	0	0	0	0	0	0
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0	2.31E-13	1.26E-10	0	0	0	0	0	0
0	3.00E-19	1.35E-23	0	0	0	0	0	0
0	4.78E-11	1.13E-14	0	0	0	0	0	1.02E-32
0	3.46E-26	1.13E-25	0	0	0	0	0	0
0	2.97E-17	8.67E-23	0	0	0	0	0	0
0	5.28E-13	3.68E-22	0	0	0	0	1.93E-28	0
0	5.77E-11	1.97E-12	0	0	0	0	8.67E-18	2.39E-25
0	2.39E-10	6.91E-22	0	0	0	0	3.24E-26	0
0	2.83E-08	2.56E-20	0	0	0	0	0	0

0	7.73E-17	1.39E-11	0	0	0	0	0	0
0	1.71E-18	2.35E-15	0	0	0	0	2.59E-18	1.23E-20
0	0	2.18E-16	0	0	0	0	2.75E-16	4.13E-14
0	9.82E-13	9.27E-17	0	0	0	0	1.28E-20	7.78E-26
0	5.00E-16	1.74E-19	0	0	0	0	6.57E-25	0
0	9.04E-10	3.15E-06	0	0	0	0	2.70E-06	5.28E-07
0	8.57E-22	2.33E-10	0	0	0	0	8.57E-10	0
0	4.31E-17	0	0	0	0	0	0	0
0	2.85E-15	9.02E-27	0	0	0	0	0	0
0	6.94E-23	3.38E-31	0	0	0	0	0	0
0	8.47E-09	1.05E-23	0	0	0	0	0	0
0	6.09E-24	3.46E-30	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	3.71E-16	2.16E-28	0	0	0	0	0	0
0	3.54E-20	7.95E-23	0	0	0	0	0	0
0	5.37E-14	1.76E-24	0	0	0	0	0	0
0	7.04E-12	1.04E-27	0	0	0	0	0	0
0	8.40E-13	8.06E-35	0	0	0	0	0	0
0	4.55E-13	1.26E-21	0	0	0	0	5.52E-27	0
0	3.61E-07	2.42E-25	0	0	0	0	1.28E-29	0
0	3.94E-10	4.79E-29	0	0	0	0	0	0
0	3.06E-12	7.76E-16	0	0	0	0	8.61E-19	3.97E-21
0	6.23E-24	6.55E-13	0	0	0	0	8.55E-13	1.19E-10
0	1.56E-08	2.08E-19	0	0	0	0	3.02E-23	1.87E-28
0	2.16E-18	1.42E-28	0	0	0	0	0	0
0	8.91E-12	1.87E-03	0	0	0	0	0	4.37E-10
0	4.55E-18	1.48E-12	0	0	0	0	4.26E-15	1.24E-21
0	3.02E-09	3.65E-06	0	0	0	0	1.98E-08	1.91E-11
0	0	0	0	0	0	0	0	0
0	1.34E-26	1.26E-13	0	0	0	0	2.43E-12	1.46E-08
0	4.06E-17	1.22E-18	0	0	0	0	2.12E-23	1.46E-31
0	6.29E-15	4.90E-09	0	0	0	0	5.80E-10	8.15E-08
0	2.85E-14	2.74E-05	0	0	0	0	0	0
0	1.50E-11	2.15E-13	0	0	0	0	0	0
0	8.32E-20	6.56E-11	0	0	0	0	0	1.60E-26
0	6.13E-03	1.79E-09	0	0	0	0	1.80E-12	9.46E-15
0	4.10E-11	2.38E-14	0	0	0	0	0	0
0	4.21E-23	1.69E-10	0	0	0	0	7.08E-11	9.85E-16
0	4.82E-15	6.98E-05	0	0	0	0	6.07E-05	2.56E-06
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	1.44E-33	0	0	0	0	0	0
0	0	6.60E-05	0	0	0	0	0	0
0	2.42E-13	6.24E-12	0	0	0	0	2.18E-14	0
0	0	4.36E-29	0	0	0	0	0	0
0	9.22E-08	5.92E-04	0	0	0	0	5.59E-04	2.52E-05
0	1.78E-19	9.14E-08	0	0	0	0	3.68E-07	0
0	5.01E-31	5.30E-31	0	0	0	0	0	0
0	6.98E-20	4.95E-23	0	0	0	0	0	0
0	1.77E-26	1.07E-20	0	0	0	0	0	0
0	0	4.30E-26	0	0	0	0	0	0

0	1.03E-17	5.64E-18	0	0	0	0	0	0
0	3.51E-25	8.29E-16	0	0	0	0	0	0
0	4.03E-29	4.33E-31	0	0	0	0	0	0
0	4.91E-19	3.54E-23	0	0	0	0	0	0
0	2.77E-23	5.90E-14	0	0	0	0	0	2.71E-33
0	0	2.37E-15	0	0	0	0	0	0
0	8.48E-16	3.02E-14	0	0	0	0	0	1.96E-28
0	5.06E-15	8.07E-19	0	0	0	0	2.79E-21	1.21E-31
0	2.42E-20	3.38E-18	0	0	0	0	0	0
0	1.54E-09	7.06E-16	0	0	0	0	2.39E-16	7.79E-25
0	6.11E-11	7.77E-18	0	0	0	0	0	0
0	3.41E-25	1.44E-16	0	0	0	0	1.05E-15	4.80E-18
0	0	4.19E-21	0	0	0	0	3.58E-17	4.77E-15
0	4.68E-17	8.20E-16	0	0	0	0	7.96E-16	5.04E-21
0	1.32E-30	6.14E-21	0	0	0	0	6.28E-22	0
0	2.23E-19	1.36E-17	0	0	0	0	3.38E-19	0
0	5.64E-07	2.46E-03	0	0	0	0	2.02E-03	8.98E-05
0	1.77E-19	6.09E-08	0	0	0	0	2.01E-07	0
0	8.22E-21	9.36E-18	0	0	0	0	0	0
0	4.34E-30	9.58E-24	0	0	0	0	0	0
0	6.47E-20	7.37E-18	0	0	0	0	0	0
0	5.57E-21	3.38E-13	0	0	0	0	0	0
0	3.67E-17	1.37E-14	0	0	0	0	0	0
0	1.23E-20	2.41E-12	0	0	0	0	0	0
0	1.66E-21	2.52E-16	0	0	0	0	0	0
0	1.58E-09	1.41E-09	0	0	0	0	0	0
0	4.81E-20	9.96E-13	0	0	0	0	0	0
0	2.05E-32	3.57E-13	0	0	0	0	0	0
0	6.97E-28	4.86E-11	0	0	0	0	0	0
0	0	4.43E-31	0	0	0	0	0	0
0	5.41E-19	7.16E-14	0	0	0	0	0	0
0	1.29E-26	4.27E-18	0	0	0	0	0	0
0	0	5.75E-25	0	0	0	0	0	0
0	2.16E-15	2.00E-07	0	0	0	0	0	0
0	9.08E-18	1.20E-13	0	0	0	0	0	0
0	1.25E-07	1.10E-05	0	0	0	0	8.86E-05	7.00E-10
0	1.02E-08	2.26E-07	0	0	0	0	0	0
0	0	1.82E-14	0	0	0	0	1.37E-09	2.15E-07
0	0	4.86E-19	0	0	0	0	5.34E-12	3.75E-08
0	1.13E-16	2.65E-07	0	0	0	0	1.72E-05	8.58E-08
0	1.39E-22	1.24E-08	0	0	0	0	0	1.73E-14
0	1.44E-27	1.24E-08	0	0	0	0	0	0
0	2.14E-06	5.68E-03	0	0	0	0	4.97E-03	4.64E-04
0	3.89E-18	8.07E-07	0	0	0	0	3.14E-06	0
0	2.22E-24	2.25E-07	0	0	0	0	0	0
0	1.84E-04	4.75E-03	0	0	0	0	0	6.17E-06
0	6.68E-16	1.20E-06	0	0	0	0	0	0
0	0	2.47E-35	0	0	0	0	0	0
0	1.30E-20	3.52E-18	0	0	0	0	0	0
0	1.47E-26	1.03E-20	0	0	0	0	0	0
0	9.70E-19	1.94E-13	0	0	0	0	0	0

0	1.98E-19	5.39E-18	0	0	0	0	0	0
0	7.00E-19	8.87E-12	0	0	0	0	0	0
0	2.18E-09	4.24E-10	0	0	0	0	0	0
0	3.04E-25	7.10E-10	0	0	0	0	0	0
0	0	1.41E-10	0	0	0	0	0	0
0	0	7.87E-12	0	0	0	0	0	0
0	0	1.56E-13	0	0	0	0	0	0
0	0	5.60E-16	0	0	0	0	0	0
0	5.13E-17	1.06E-09	0	0	0	0	0	0
0	2.17E-10	9.62E-12	0	0	0	0	0	0
0	0	1.15E-14	0	0	0	0	0	0
0	3.71E-18	1.75E-11	0	0	0	0	0	0
0	5.36E-11	5.51E-09	0	0	0	0	0	9.33E-12
0	6.32E-03	5.44E-03	0	0	0	0	0	0
0	3.70E-14	1.90E-10	0	0	0	0	0	0
0	6.16E-14	4.30E-10	0	0	0	0	0	0
0	1.83E-30	6.47E-11	0	0	0	0	1.85E-08	2.97E-12
0	1.13E-25	2.18E-08	0	0	0	0	4.63E-06	5.81E-06
0	0	5.35E-13	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	2.74E-27	0	0	0	0	0	0
0	0	8.01E-04	0	0	0	0	0	0
0	1.01E-14	6.58E-06	0	0	0	0	4.97E-06	0
0	1.22E-21	2.34E-18	0	0	0	0	0	0
0	1.41E-20	2.72E-18	0	0	0	0	0	0
0	3.38E-20	2.62E-12	0	0	0	0	0	0
0	2.76E-18	5.63E-22	0	0	0	0	0	0
0	2.93E-10	3.60E-10	0	0	0	0	0	0
0	8.62E-11	2.66E-11	0	0	0	0	0	0
0	3.81E-22	1.28E-14	0	0	0	0	0	0
0	1.96E-30	2.32E-13	0	0	0	0	0	0
0	6.20E-21	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	4.40E-13	1.18E-31	0	0	0	0	0	0
0	1.13E-25	1.59E-35	0	0	0	0	0	0
0	1.73E-33	0	0	0	0	0	0	0
0	1.87E-17	1.32E-33	0	0	0	0	0	0
0	1.02E-17	3.10E-24	0	0	0	0	0	0
0	7.61E-24	1.42E-22	0	0	0	0	0	0
0	7.28E-13	2.95E-27	0	0	0	0	0	0
0	1.52E-14	1.49E-31	0	0	0	0	0	0
0	1.76E-11	5.88E-31	0	0	0	0	0	0
0	1.46E-11	0	0	0	0	0	0	0
0	9.21E-14	6.88E-07	0	0	0	0	8.46E-12	1.75E-23
0	5.07E-14	2.74E-26	0	0	0	0	1.45E-32	0
0	5.75E-10	5.43E-32	0	0	0	0	0	0
0	3.79E-31	0	0	0	0	0	0	0
0	5.98E-12	0	0	0	0	0	0	0

0	5.12E-11	1.45E-33	0	0	0	0	0	0
0	1.17E-15	5.48E-23	0	0	0	0	7.91E-27	4.98E-32
0	7.93E-20	6.75E-20	0	0	0	0	7.44E-23	3.53E-25
0	1.83E-13	4.39E-28	0	0	0	0	2.31E-32	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	3.42E-18	3.66E-32	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	2.09E-30	0	0	0	0	0	0	0
0	1.49E-27	0	0	0	0	0	0	0
0	2.42E-24	0	0	0	0	0	0	0
0	7.86E-27	1.17E-31	0	0	0	0	0	0
0	8.87E-23	0	0	0	0	0	0	0
0	3.10E-26	0	0	0	0	0	0	0
0	1.78E-23	0	0	0	0	0	0	0
0	2.41E-16	3.25E-30	0	0	0	0	0	0
0	3.11E-17	8.42E-24	0	0	0	0	9.22E-27	4.24E-29
0	1.42E-19	0	0	0	0	0	0	0
0	4.94E-31	0	0	0	0	0	0	0
0	8.33E-22	4.32E-19	0	0	0	0	0	0
0	0	9.56E-19	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1.22E-19	4.01E-22	0	0	0	0	0	0
0	8.17E-25	4.19E-24	0	0	0	0	0	0
0	3.30E-33	4.02E-29	0	0	0	0	0	0
0	4.57E-18	1.26E-17	0	0	0	0	0	0
0	0	3.60E-10	0	0	0	0	0	0
0	0	6.30E-11	0	0	0	0	0	0
0	6.07E-29	2.34E-11	0	0	0	0	0	0
0	0	2.23E-12	0	0	0	0	0	0
0	4.30E-15	6.27E-13	0	0	0	0	0	0
0	4.68E-10	1.26E-15	0	0	0	0	0	0
0	3.61E-14	2.07E-12	0	0	0	0	0	0
0	1.02E-30	1.57E-20	0	0	0	0	0	0
0	5.79E-11	2.96E-33	0	0	0	0	0	0
0	4.22E-25	0	0	0	0	0	0	0
0	1.56E-33	0	0	0	0	0	0	0
0	7.93E-17	0	0	0	0	0	0	0
0	1.05E-12	1.35E-22	0	0	0	0	0	0
0	4.95E-17	1.94E-19	0	0	0	0	0	0
0	0	3.80E-23	0	0	0	0	0	0
0	0	4.30E-22	0	0	0	0	0	0
0	1.21E-09	1.73E-27	0	0	0	0	0	0
0	6.09E-10	0	0	0	0	0	0	0
0	2.09E-20	0	0	0	0	0	0	0
0	1.09E-17	0	0	0	0	0	0	0
0	7.95E-11	7.07E-22	0	0	0	0	2.14E-25	1.33E-30
0	1.61E-13	2.44E-17	0	0	0	0	5.58E-20	2.67E-22
0	7.25E-22	3.38E-11	0	0	0	0	7.73E-11	1.36E-08
0	4.35E-09	1.22E-27	0	0	0	0	1.18E-31	0

0	3.72E-23	0	0	0	0	0	0	0
108.749	2.271976	10.31597	0.5404	0.5404	133.6534	133.6534	0.262453	0.351322
2969.395	41.11455	188.0068	23.78293	23.78293	3835.639	3835.639	6.470147	6.340383
3363.901	0.041304	0.188447	20.54511	14.94521	3312.552	3312.552	4.90E-03	6.45E-03
50	45	49.99305	169.9146	50	25	25	50	49
0.868	0.793	0.868	0.968	0.968	1	1	0.968	0.852
1	0	0	1	1	1	1	0	0
0	1	0.999465	0	0	0	0	0.97948	0.999924
0	0	5.35E-04	0	0	0	0	0.02052	7.58E-05
-33782.7	-2.84E+05	-2.86E+05	-3.88E+05	-3.93E+05	-3400.29	-3400.29	-3.79E+05	-2.79E+05
-1237.23	-15667.5	-15717	-8815.44	-8926.69	-118.484	-118.484	-15353.8	-15458.5
-3.67383	-0.64416	-2.9549	-0.20966	-0.2123	-0.45446	-0.45446	-0.09934	-0.09801
197.3617	74.94161	76.21944	230.0756	217.2271	194.4796	194.4796	76.81416	76.83274
7.228036	4.141249	4.182177	5.227814	4.93587	6.776669	6.776669	3.115867	4.257313
0.032328	55.00564	54.7422	0.026303	0.036159	0.040348	0.040348	53.58863	54.4751
0.882724	995.403	997.667	1.157596	1.591342	1.15791	1.15791	1321.098	983.125
27.30502	18.09638	18.22483	44.0099	44.0099	28.69841	28.69841	24.65258	18.04724
			0.028943	0.028943	7.091637	7.091637		