

PROPELLANT	HF	DENSITY	WEIGHT	MOLES	VOLUME
N2O	18.6500	.7220	.5000	.0114	.6925
CH3NO2	-27.0300	1.1290	.5000	.0082	.4429

GRAM ATOMS/100 GRAMS

H 2.4574 O 2.7743 N 3.0912 C .8191

ENTHALPY = -.95398 DENSITY = .881
 CSTAR = 5249.92

	CHAMBER	THR(SHIFT)	EXH(SHIFT)
PRESSURE (PSIA)	1000.000	576.180	14.700
EPSILON	.000	1.000	9.723
ISP	.000	107.275	266.327
ISP (VACUUM)	.000	201.294	289.649
TEMPERATURE(K)	3276.044	3097.205	1997.914
MOLECULAR WEIGHT	26.257	26.550	27.810
MOLES GAS/100G	3.808	3.767	3.596
CF	.000	.657	1.632
PEAE/M (SECONDS)	.000	94.019	23.322
GAMMA	1.222	1.220	1.220
HEAT CAP (CAL)	41.731	41.562	39.666
ENTROPY (CAL)	238.520	238.520	238.521
ENTHALPY (KCAL)	-.954	-14.174	-82.437
DENSITY (G/CC)	6.64637E-03	4.09572E-03	1.69678E-04
ITERATIONS	10	3	11

GRAMS/100 GRAMS

H	.02400	.01780	.00048
H2	.17628	.14987	.04993
HO	1.92588	1.52605	.03744
HO2	.01155	.00698	.00001
H2O	18.15821	18.64950	20.43943
H2O2	.00110	.00064	.00000
O	.28897	.20321	.00048
O2	2.86319	2.45153	.02064
O3	.00001	.00000	.00000
HN	.00006	.00003	.00000
HNO	.00111	.00059	.00000
HNO2	.00032	.00017	.00000
HNO2	.00029	.00016	.00000
H2N	.00005	.00002	.00000
H3N	.00006	.00003	.00000
N	.00028	.00014	.00000
NO	1.79885	1.37951	.01854
NO2	.00332	.00203	.00000
N2	42.40609	42.60958	43.26785
N2O	.00081	.00047	.00000
HCOOH	.00011	.00006	.00000
CHN	.00001	.00000	.00000
CHNO	.00003	.00001	.00000
CHO	.00023	.00010	.00000
CH2O	.00001	.00000	.00000
CO	8.62587	7.45892	1.90663
CO2	21.48496	23.34343	32.18589