

TDYNPROP CALCULATION RESULTS

Flow-Sheet data used from Project: 21776
Case: 1 Stream number: 2105
TD-package: STM9DATA

CALCULATED THERMODYNAMIC PROPERTIES

Temperature	50.0001	deg.C
Pressure	15.8941	kg/sq.cm g
Total flow	2709.89	kmol/h
Component ident. no	Composition mole%	Bulk diffusion coeff. sq.m/h
1	71.5184	.019042
2	.6465	.011361
3	.1253	.011306
5	23.8552	.016707
6	.0050	.009203
8	3.8496	.011410
		Hydrogen
		Water
		Nitrogen
		Carbon Monoxide
		Carbon Dioxide
		Methane
Vapor fraction	100.000	%
Dew point temperature	47.0029	deg.C
Enthalpy	-1.949276E+07	kcal/h
Exergy	1.755503E+08	kcal/h
Lower heat value 25 deg.C	2893.41	kcal/Ncu.m
Upper heat value 25 deg.C	3267.21	kcal/Ncu.m
Total flow	24104.8	kg/h
Average molecular weight	8.89510	kg/kmol
Gas density	5.46729	kg/cu.m
Compressibility factor	1.00519	
Heat capacity	7.02505	kcal/kmol/K
Heat capacities ratio	1.39732	
Viscosity	5.656114E-02	kg/m/h
Thermal conductivity	.101844	kcal/m/h/K
Molar enthalpy	-7193.19	kcal/kmol
Molar entropy	.798877	kcal/kmol/K