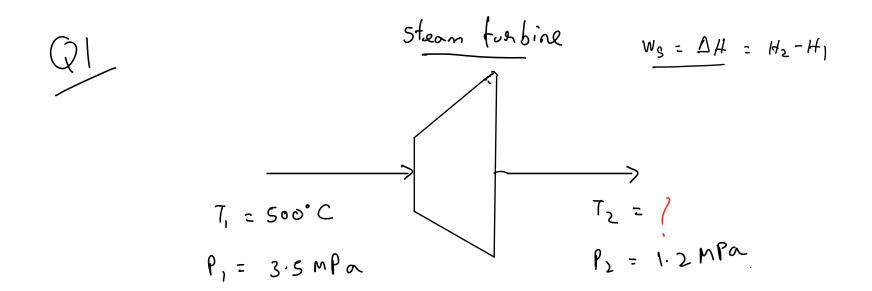
Thenmo

acitation #12 (05/09/23)

-> Problems using preos excel sheet.



Ainis to fill this table:

	= 62.129 kJ/mo
S, = S, = H2 = 3121.55 KJ llcg 7.159 kJ llg/(DH = 5.941 kJ/mol	
Preos 72 = 604.7071c H) = 63.996 kJ/mol	
Ref: thiple point $S_1 = S_2 = 133.87$ Hz = 58.066 FJ/mol $\Delta H = 5.93$ FJ/mol $\Delta H = 5.93$ FJ/mol	

$$\frac{Preos}{Ref : l = 1 M la}$$
 $T_2 = 604.81K$
 $S_1 = S_2 = 7 = 100°C$
 $108.456 J | molk$

$$T_2 = 604.81$$
K

 $H_1 = 55.822$ kg/mol

 $S_1 = S_2 = 49.897$ kg/mol

 $\Delta H = 3.925$ kg/mal

$$S_{1} = 7.1593$$
 kg/kg-k
 $S_{2} = S_{1}$

Thiple point of water:

P = 0.0006 m Pa

T = 273.16 | <

in ture	polation for	T ₂	
\(\rangle 9\(\tau \)	S (lej kg/c)	T (°c	
ا عر	7.0335	300	9,
χ	7.1593	y	
χ _ζ	7:2139	350	92

interpolation formula:

$$y = \frac{y_2 - y_1}{x_2 - x_1} (x - x_2) + y_2$$

$$y = \frac{334.87°C = 72}{508.02} = 608.02 = 6$$

interpolation for H2

at o. smla.

T (°c) H (AJ | kg)

2, 360

2, 360

3046.3 9,

R 334.87

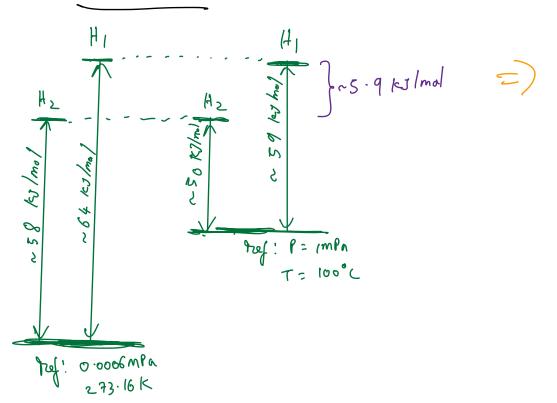
Y

32 350

3154.2 92

$$y = \frac{y_2 - y_1}{x_2 - x_1}$$
 $(x - x_2) + y_2$
 $y = \frac{3121.55}{56.188}$ kJ/mol

Overview:



Conclusion: irrespective of the reference the delta(D) of the thermodynamic state property is the same. Howing different reference give us different value of the state property.

Recitation #8

L, Q5.4

rilling the public with the fable with 1.

(J/mol)

(J/molk)

> 10/0	Stream	T [°C]	P [Mpa]	H [kJ/kg]	S [kJ/kgK]
SH	1	500 °C	4	63882.092	132.658
S# ?	2/3	6(6.85 K	0.8 1.5	58422.63	132.65
SH	3a	500 °C	0.8	64 602.84	146.724
?	4	620.85K	0.01 0.3	58972.11	146.720
Saf. lig/.	5	134.32 0	0.01 0.3		
Sat. ligy. Compressed {	6		4		
lig	7	T8-5	4		
Sat. ligy G		78 443.8K	0.8	14174.75	40.14
- V	•				

values reported
at ref: P20.0006 Mla } Thiple Point of
T= 273.16 /c water.

Recitation #4: Q4

hom 1REOS > H = 53492-944 J mol Tz = 468:113 K = 194.963°C

If often times the PREOS excel function will give hesults in 3-noof region even though the stream is in 1-noot hegion actually. we can proceed with the vapors on ligy values asper the Steam fable.