6/23/71
K.E.B

Gas Heat Capacity

Biphenyl

$$H_{cp} = 2.9929942 + 8.3563575 \times 10^{-2} T - 3.2743332 \times 10^{-5} T^2 + 4.602647 \times 10^{-9} T^3$$

Biphenyl

Liquid Heat Capacity (CAL/GRAM)

$H = 0$ ~~.26998~~

$$H_L = 0.25993 + 0.84572 \times 10^{-3} T$$

T = °C

We will use the same heat capacity for all compounds.

DSW 297108

R-262
REV.-7/63

TECHNICAL COMPUTER DEPARTMENT

PROBLEM NO.	JOB NO.	
TITLE		
ANALYST Boucher	PAGE OF	DATE 6/22/71

1 LIQUID HEAT CAPACITY COEFFICIENTS -BTU/LB

3 9 1

1 1 3 9000 1

200.	.416
300.	.470
400.	.547
500.	.616
600.	.658
700.	.679
800.	.686
900.	.690
1000.	.696

1 LIQUID HEAT CAPACITY COEFFICIENTS - CAL/GRAM

100.	.360
150.	.380
200.	.412
250.	.460
300.	.518
350.	.575
400.	.610
450.	.625

3 8 1

use this one

DSW 297109

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