

Fig. 7. Enthalpy of methane-propane mixture at 150°F.

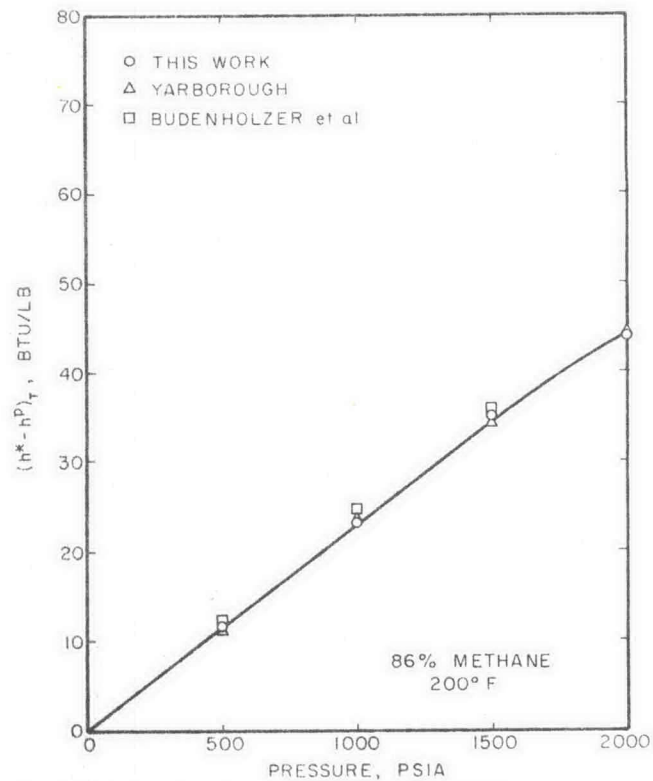


Fig. 8. Enthalpy of methane-propane mixture at 200°F.

TABLE 3. COMPARISON OF CALCULATIONAL METHODS

$$\Delta h = (h^* - h^p)_T, \text{ B.t.u./lb.}$$

Mole % Methane	Temp. °F.	Pressure lb./sq.in. abs.	Smoothed Exp. Value	Method A*	Method B†	Method C‡
100	150	500	11.4	10.63	11.10	11.8
100	150	1,000	22.7	20.97	22.17	22.4
100	150	1,500	33.8	30.67	32.87	35.0
100	150	2,000	42.2	39.38	42.78	43.6
94	90	500	15.0	15.34	14.90	14.4
94	90	1,000	30.3	31.10	30.52	30.9
94	90	1,500	45.9	46.34	46.07	47.3
94	90	2,000	60.5	59.72	60.22	59.6
94	150	500	12.5	12.48	12.01	12.3
94	150	1,000	24.5	24.79	24.14	25.1
94	150	1,500	36.1	36.46	35.92	37.0
94	150	2,000	44.3	46.89	46.79	47.3
94	200	500	10.0	10.67	10.24	10.7
94	200	1,000	19.8	20.98	20.36	21.4
94	200	1,500	29.1	30.63	30.06	31.2
94	200	2,000	35.8	39.28	39.02	39.9
86	90	500	17.3	17.2	17.5	15.8
86	90	1,000	35.6	35.7	36.6	33.6
86	90	1,500	53.5	54.0	55.9	52.6
86	90	2,000	71.4	69.5	72.5	69.2
86	150	500	14.1	14.0	13.9	13.0
86	150	1,000	28.1	28.1	28.3	27.3
86	150	1,500	42.2	41.7	42.4	40.9
86	150	2,000	55.0	53.8	55.2	53.0
86	200	500	11.5	11.9	11.8	11.3
86	200	1,000	23.1	23.7	23.6	22.5
86	200	1,500	34.7	34.8	35.0	33.5
86	200	2,000	44.8	44.8	45.5	43.4

* Calculated via Redlich-Kwong equation of state.

† Calculated via Benedict-Webb-Rubin equation of state.

‡ Calculated via Pitzer's generalized corresponding states correlation.