

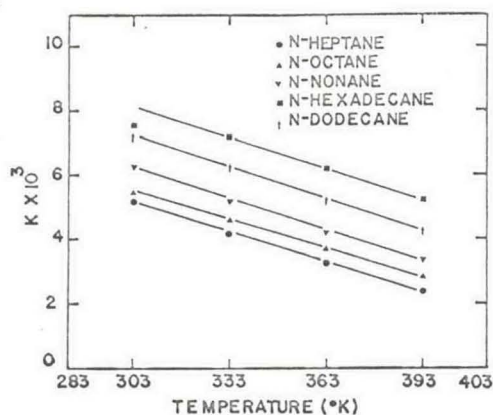


Figure 3.

TABLE 3*
(PRESSURE RANGE 0-1200 KG/CM²)

Compound	Temp. °C	K	q	Degree of Fit
N-Heptane	0	6.317×10^3	1.1147	0.9960
	30	5.173×10^3	1.1318	0.9999
	60	4.100×10^3	1.1524	0.9998
	90	3.197×10^3	1.1843	0.9998
	120	2.405×10^3	1.2132	0.9999
N-Octane	30	5.423×10^3	1.1038	0.9999
	60	4.559×10^3	1.1337	0.9999
	90	3.685×10^3	1.1650	0.9999
	120	2.827×10^3	1.1921	0.9998
N-Nonane	30	6.266×10^3	1.1211	0.9999
	60	5.151×10^3	1.1397	0.9998
	90	4.173×10^3	1.1613	0.9998
	120	3.337×10^3	1.1964	0.9997
N-Hexadecane	30	7.478×10^3	1.0571	0.9999
	60	7.220×10^3	1.1180	0.9999
	90	6.190×10^3	1.1346	0.9999
	120	5.240×10^3	1.1517	0.9998
N-Dodecane	30	7.215×10^3	1.0950	0.9998
	60	6.189×10^3	1.1188	0.9999
	90	5.139×10^3	1.1303	0.9998
	120	4.226×10^3	1.1524	0.9997

*Data obtained from Reference (16).

TABLE 5
(PRESSURE RANGE 0-20,000 PSI)

Compound	Temp. °F	ln A	B	Degree of Fit
Acetaldehyde	71.6	14.8876	11.5468	0.9986
Propionaldehyde	74.3	15.2003	9.7068	0.9969
Butyraldehyde	84.0	15.0745	13.3936	0.9978
Iso-Butyraldehyde	82.8	15.0016	12.6535	0.8810
Iso-Valeraldehyde	81.0	14.7606	21.2072	0.9727
Heptaldehyde	71.1	15.3884	12.0205	0.9993
Caprylic Aldehyde	69.3	15.4478	12.3812	0.9973
Benzaldehyde	71.7	15.7525	15.1413	0.9881
Anisaldehyde	76.7	16.0068	11.9908	0.9917
Trans-Cinnamaldehyde	84.3	15.6159	27.9051	0.9925

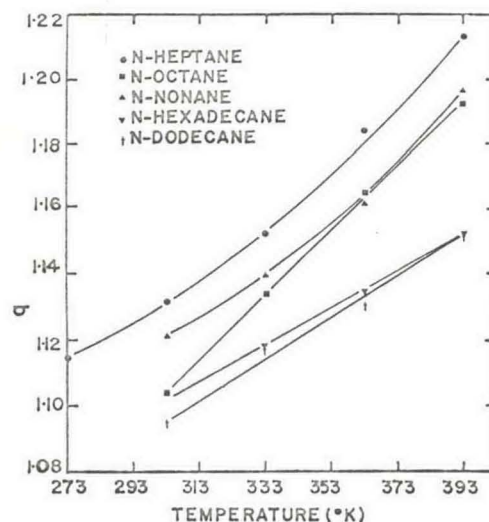


Figure 4.

TABLE 4*
(PRESSURE RANGE 0-10,000 KG/CM²)

Compound	Temp. °C	K	q	Degree of Fit
N-Propyl Alcohol	20	9.7085×10^3	1.2855	0.9999
	80	6.2931×10^3	1.3045	0.9992
Iso-Butyl Alcohol	20	8.0476×10^3	1.2227	0.9998
	80	5.5286×10^3	1.2476	0.9992
Iso-Amyl Alcohol	20	9.2768×10^3	1.2398	0.9997
	80	6.3919×10^3	1.2515	0.9993
Iso-Propyl Alcohol	0	9.3602×10^3	1.1952	0.9999
	50	6.9389×10^3	1.2427	0.9997
	95	5.1828×10^3	1.2058	0.9994
N-Butyl Alcohol	0	10.5225×10^3	1.1673	0.9996
	50	8.3967×10^3	1.1910	0.9997
	95	6.6275×10^3	1.2392	0.9999
Water	0	11.1705×10^3	1.0567	0.9998
	50	12.4396×10^3	1.0307	0.9999
	95	11.7268×10^3	1.0339	0.9999

*Data obtained from Reference (6).

TABLE 6*
(PRESSURE RANGE 1-5000 ATMOSPHERES)

Compound	Temp. °C	ln A	B	Degree of Fit
N-Hexane	0	10.0389	14.5073	0.9997
	25	9.8240	14.6359	0.9998
	40	9.6914	14.7003	0.9999
	60	9.5003	14.8697	0.9999
N-Heptane	0	10.1402	14.4582	0.9999
	25	10.2153	10.4041	0.7667
	40	9.8300	14.6492	0.9999
	60	9.6626	14.8232	1.0000
N-Octane	0	10.3195	13.9946	0.9999
	25	10.1426	14.3605	0.9853
	40	10.0137	14.5067	1.0000
	60	9.8494	14.7903	0.9999

*Data obtained from Reference (14).