LIST OF MEASUREMENTS AVAILABLE

Wiltec Research has been measuring thermodynamic data on a contract basis for over 20 years. Most of the contract agreements specify that Wiltec agrees to keep any measured data confidential for 5 to 10 years, depending on the individual contract. After this confidentiality period has expired, Wiltec has the option of making these data available to the public without disclosing the original client and or the process to which those data pertain. Wiltec will notify an appropriate representative of the originally contracted company before releasing any data specific to their project. Wiltec now has a substantial amount of thermodynamic data that can potentially be made available for a fee.

We encourage you to look through the following list of chemical systems and note anything that would be of interest. **Use the button at the top of the next page (or the "find" button on the Acrobat Reader toolbar) to search for the compound you are interested in. After entering your search text, press the "find again" button on the Acrobat Reader toolbar to find the next occurrence of the compound your searching for (for more information on searching within a *.PDF document, look in the "Reader Guide" under "Help" in Acrobat Reader).** Each system is listed along with the conditions of measurement: Temperature, pressure, liquid composition, number of points and a list of all compounds in the system. After you have found a system that you are interested in, please email us and/or call us for availability and pricing information.

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Explanation of notation used in the tables

a. X^0 indicates number of compounds (i.e. 2^0=binary, 3^0=ternary, 4^0=quaternary, etc.)
b. P* = vapor pressure
c. Cp = heat capacity
d. ΔH = enthalpy change
e. ρ = density
f. therm cond = thermal conductivity

Search

index number	type of measurement	system	T	P	x	# of points		
6	4^0 VLLE	/methyl chloride/H_2O/methanol/HCl/	11,88 F	25,100 psia		2		
7	4^0 PTxy	/methyl chloride/H_2O/methanol/HCl/	11,182 F			3		
8	6^0 PTxy	/isobutane/n-butane/trans-2-butene/isobutene/1-butene/cis-2-butene/	75,125 F			16		
9	2^0 PTx	/H_2O/unsymmetrical dimethyl hydrazine/	121 C					
10	2^0 PTx	/H_2O/dimethylamine/	71 C					
11	2^0 PTx	/dimethylamine/methylene dimethyl hydrazine/	71 C					
12	3^0 PTxy	/H_2O/unsymmetrical dimethyl hydrazine/methylene dimethyl hydrazine/	250,293 F	30,60 psia	94.5wt% H_2O			
13	4^0 PTxy	/H_2O/unsymmetrical dimethyl hydrazine/methylene dimethyl hydrazine/dimethylamine/	296,172 F	131 psia		2		
14	4^0 PTxy	/H_2S/CO_2/H_2O/K_2CO_3/	90-170 C					
15	thermodynamic tab	/H_2O/2-methylpyridine/			75mol% H_2O			
16	P*	/adiponitrile/	106-210 C					
17	P*	/methylglutaronitrile/	90-210 C					
18	Cp	/adiponitrile/	25-260 C					
19	Cp	/methylglutaronitrile/	25-260 C					
20	Cp	/tetralin/	25-190 C					
21	2^0 PTxy	/dimethyl sulfide/CO_2/	10 F	360 psia	3000wtppm DMS	1		
22	2^0 PTxy	/H_2S/CO_2/	10 F	360 psia	20-500wtppm H_2S			
23	2^0 PTxy	/COS/CO_2/	10 F	360 psia	20wtppm COS			
24	2^0 PTxy	/methanol/dimethyl carbonate/	102,138 C					
25	P*	/dimethyl carbonate/	89-201 C					
26	2^0 PTxy	/methanol/dimethyl carbonate/	215,280 F		5,50,95mol% DMC	6		
27	P*	/dimethyl carbonate/	89-202 C					
28	2^0 PTxy	/HCl/methanol/	-51,-4 F	14.7 psia	54,61mol% HCl	2		
29	2^0 LLE	/H_2O/n-decane/	100-300 C			4		
30	2^0 LLE	/H_2O/n-1-decene/	100-300 C			4		
31	2^0 LLE	/H_2O/tetrahydronaphthalene/	100-300 C			4		
32	2^0 LLE	/H_2O/cis-decahydronaphthalene/	100-300 C			4		
33	solubility	/isobutane/ in /polyethylene/	400 F	20-800 psia				
34	P*	/oleic acid/	175-290 C					
35	P*	/dehydroabietic acid/	190-310 C					
36	P*	/3,5-dimethoxystilbene/	170-310 C					
37	2^0 PTx (modified)	/oleic acid/dehydroabietic acid/	180,215,250 C					
38	2^0 PTx (modified)	/oleic acid/3,5-dimethoxystilbene/	180,215,250 C					
39	2^0 PTx (modified)	/dehydroabietic acid/3,5-dimethoxystilbene/	180,215,250 C					
40	2^0 PTx	/α-methylstyrene/phenol/	100,145,170 C					
41	2^0 PTxy	/α-methylstyrene/phenol/	100,145,170 C		5mol% phenol	1/temp		
42	3^0 PTxy	/H_2S/NH_3/H_2O/	120,140 C			2		
43	4^0 PTxy	/H_2S/NH_3/H_2O/CO_2/	50,130,170 C		>90mol% H_2O	4		

index number	type of measurement	system	T	P	x	# of points		
44	4^0 PTxy	/H_2S/KOH/H_2O/CO_2/	130,190 C		94mol% H_2O	2		
45	4^0 PTxy	/KOH/NH_3/H_2O/CO_2/	130,190 C		93mol% H_2O	2		
46	4^0 PTxy	/KOH/NH_3/H_2O/H_2S/	130,190 C		93mol% H_2O	2		
51	2^0 PTxy	/N_2/H_2O/	100-600 F	50-2000 psia		16		
52	2^0 PTxy	/H_2/H_2O/	100-600 F	50-2000 psia				
53	2^0 PTxy	/CO/H_2O/	100-600 F	50-2000 psia				
54	3^0 PTxy	/H_2/CO/H_2O/	100-600 F	50-2000 psia				
55	2^0 PTxy	/H_2S/H_2O/	100-600 F	50-2000 psia				
56	heat of vaporizatior	/propionic acid/	92-162 C			4		
57	heat of vaporizatior	/acrylic acid/	92-162 C			4		
58	2^0 PTx	/HCl/1-chloro-1,1-difluoroethane (HCFC-142b)/	-20 C					
59	2^0 PTxy	/HCl/1-chloro-1,1-difluoroethane (HCFC-142b)/	-20 C			3		
60	ΔH (absorbtion)	/CO_2/ into /dimethylaminoethanol/	30,70,100 F					
61	ΔH (absorbtion)	/H_2S/ into /dimethylaminoethanol/	70 F					
62	ΔH (absorbtion)	/methane/ into /dimethylaminoethanol/	70 F					
63	3^0 PTxy	/ethanol/H_2O/cyclohexane/	95,100 C	45.5 psia				
64	3^0 LLE	/ethanol/H_2O/cyclohexane/	35,80 C			2		
65	4^0 PTxy	/NH_3/H_2O/HMD?/HMI?/	35,45,55 C					
66	2^0 PTxy	/hexamethylene diamine/ NH_3/	140-180 C	400-600 psia	29-40 mol% NH_3			
67	4^0 PTxy	/hexamethylenediamine/NH_3/H_2/CH_4/	160 C	500 psia	29-34 mol% NH_3			
68	ρ(liq)	/hexamethylenediamine/	53-180C					
69	3^0 PTxy	/cyclohexane/ethanol/H_2O/	64 C	14.7 psia	44:55:0.7mol%			
70	3^0 LLE	/cyclohexane/ethanol/H_2O/	60 C	14.7 psia				
72	2^0 PTxy	/ethylene oxide/CO_2/	45 C			2		
73	3^0 LLE	/ethylene oxide/CO_2/H_2O/	45,75,120 C			3		
74	2^0 PTx	/cyclohexane/cyclohexanol/	90,115,140 C					
75	3^0 PTx	/NH_3/aniline/H_2O/	200,230,260 F	167,169,230 psia		5		
76	heat of absorbtion	/NH_3 into aniline/	70 C	0-450 psia	0-95mol% NH_3	15		
77	4^0 PTxy	/urea/H_2O/NH_3/CO_2/	86-300 F	17-253 psia				
78	heat of absorption	/NH_3 into 50%urea:50%H_20/	30 C	1-7 psia				
79	heat of absorption	/CO_2 into 45%urea:45%H_2O:10%NH_3/	30 C	7-4 psia				
82	2^0 PTx	/1,1,1-trifluoroethane(HFC-143a)/HCl/	7 F					
83	2^0 PTx	/1,1,1-trifluoroethane(HFC-143a)/HF/	54 F					
84	2^0 PTxy	/1,1,1-trifluoroethane(HFC-143a)/HF/	54 F			1		
85	2^0 PTx	/HF/isobutyrylfluoride/	65 C					
86	2^0 PTxy	/HF/isobutyrylfluoride/	65 C		95% HF			
87	2^0 PTx	/HF/isobutyric acid/	150 C					
88	2^0 PTxy	/HF/isobutyric acid/	150, 195 C		2% HF			
89	2^0 PTx	/isobutyrylfluoride/isobutyric acid/	100, 195 C					
90	2^0 PTxy	/isobutyrylfluoride/isobutyric acid/	100, 195 C		2,5,95% IBF			

index number	type of measurement	system	T	P	x	# of points		
91	γ(inf)	/ethylene oxide in H_2O/	85-175 C			7		
92	gas solubility	/NO_2 in 60wt% HNO_3/40wt% H_2O/	66-86 C	<43 psia		21		
93	gas solubility	/NO_2 in 65wt% HNO_3/35wt% H_2O/	66-86 C	<45 psia		24		
94	γ(inf)	/benzene/ in /N-(2-hydroxyethyl)-2-pyrrolidone/	75,120 C					
95	γ(inf)	/toluene/ in /N-(2-hydroxyethyl)-2-pyrrolidone/	75,120 C					
96	γ(inf)	/m-xylene/ in /N-(2-hydroxyethyl)-2-pyrrolidone/	75,120 C					
97	γ(inf)	/1-methyl-4-ethylbenzene/ in /N-(2-hydroxyethyl)-2-pyrrolidone/	75,120 C					
98	γ(inf)	/3-methylpentane/ in /N-(2-hydroxyethyl)-2-pyrrolidone/	75,120 C					
99	γ(inf)	/mehtylcyclopentane/ in /N-(2-hydroxyethyl)-2-pyrrolidone/	75,120 C					
100	γ(inf)	/3-methyloctane/ in /N-(2-hydroxyethyl)-2-pyrrolidone/	75,120 C					
101	γ(inf)	/isopropylcyclohexane/ in /N-(2-hydroxyethyl)-2-pyrrolidone/	75,120 C					
102	γ(inf)	/benzene/ in /adiponitrile/	75,120 C					
103	γ(inf)	/toluene/ in /adiponitrile/	75,120 C					
104	γ(inf)	/m-xylene/ in /adiponitrile/	75,120 C					
105	γ(inf)	/1-methyl-4-ethylbenzene/ in /adiponitrile/	75,120 C					
106	γ(inf)	/3-methylpentane/ in /adiponitrile/	75,120 C					
107	γ(inf)	/mehtylcyclopentane/ in /adiponitrile/	75,120 C					
108	γ(inf)	/3-methyloctane/ in /adiponitrile/	75,120 C					
109	γ(inf)	/isopropylcyclohexane/ in /adiponitrile/	75,120 C					
110	2^0 PTx	/ethylene oxide/H_2O/	283,298 K					
111	γ(inf)	/ethylene oxide/H_2O/	280-360 K			9		
112	2^0 PTx	/HCl/vinyl chloride/	192,266 K					
113	2^0 PTx	/HCl/phosgene/	194,266 K					
114	2^0 PTx	/vinyl chloride/acetone/	281,339 K					
115	2^0 PTx	/vinyl chloride/n-hexane/	259,308 K					
116	2^0 LLE	/H_2O/vinyl chloride/	288-365 K			4		
117	2^0 PTx	/HF/HCl/	194,244 K					
118	2^0 VLLE	/HF/HCl/	194,244 (misc) K			2		
119	2^0 PTx	/HCl/dichlorodifluoromethane(CFC-12)/	-42 F					
120	2^0 PTx	/HCl/chlorodifluoromethane(HCFC-22)/	4 F					
121	2^0 PTx	/chlorodifluoromethane(HCFC-22)/dichlorofluoromethane(HCFC-21)/	82 F					
122	gas solubility	/HCl/ in /trichlorosilane/	227-252 F			9		
123	gas solubility	/HCl/ in /siliconetetrachloride/	227-303 F			9		
124	gas solubility	/H_2/ in /trichlorosilane/	-40-190 F			5		
126	gas solubility	/H_2/ in /diglycol amine/H_2O/	150,170,190 F	500-3000 psia	50wt% DGA			
127	gas solubility	/H_2/ in /MEA?/H_2O/	140 F	2000-3000 psia	20wt% MEA			

index number	type of measurement	system	T	P	x	# of points		
128	gas solubility	/methane/ in /diglycol amine/H_2O/	170 F	500-3000 psia	50wt% DGA			
129	gas solubility	/methane/H_2/ in /diglycol amine/H_2O/	170 F	2000-3000 psia	50wt% DGA			
130	2^0 PTx	/silicontetrachloride/trichlorosilane/	50,80,110 C					
131	2^0 PTxy	/silicontetrachloride/trichlorosilane/	50,80,110 C		4,97mol% $SiCl_4$	3		
132	PVT	/acetic acid/H_2O/	100-230 C					
133	2^0 PTxy	/acetic acid/H_2O/	100-230 C		0-100%	53		
134	gas solubility	/CO/isobutyric acid/	40,60,80 C					
135	gas solubility	/CO/isobutyryl fluoride /	40,60,80 C					
136	gas solubility	/CO/HF/	40,60,80 C					
137	gas solubility	/O_2/HF/	40,60,80 C					
138	2^0 PTxy	/CO_2/HF/	40,60,80 C					
139	2^0 PTx	/methylisobutyl ketone/methylisobutyl carbinol/	240,300 F					
140	heat of vaporizatior	/acetic acid/	100-230 C					
141	heat of vaporizatior	/valeric acid/	160-300 C					
142	γ(inf)	/COS/n-tetradecane/	80-320 F					
143	γ(inf)	/COS/n-dodecane/	20-240 F					
144	γ(inf)	/COS/n-octane/	0-200 F					
145	γ(inf)	/COS/n-1-octene/	0-240 F					
146	γ(inf)	/COS/toluene/	0-240 F					
147	γ(inf)	/COS/methylcyclohexane/	0-240 F					
148	γ(inf)	/methanethiol/n-tetradecane/	160-320 F					
149	γ(inf)	/methanethiol/n-dodecane/	20-240 F					
150	γ(inf)	/methanethiol/n-octane/	0-200 F					
151	γ(inf)	/methanethiol/n-1-octene/	0-240 F					
152	γ(inf)	/methanethiol/toluene/	0-240 F					
153	γ(inf)	/methanethiol/methylcyclohexane/	0-240 F					
154	γ(inf)	/ethanethiol/n-tetradecane/	160-320 F					
155	γ(inf)	/ethanethiol/n-dodecane/	20-240 F					
156	γ(inf)	/ethanethiol/n-octane/	0-200 F					
157	γ(inf)	/ethanethiol/n-1-octene/	0-240 F					
158	γ(inf)	/ethanethiol/toluene/	0-240 F					
159	γ(inf)	/ethanethiol/methylcyclohexane/	0-240 F					
160	bubble point	/phenol/aniline/H_2O/diphenyl amine/	350-400 C			4		
161	gas solubility	/N2/ in /HF/	40,60,80 C	1000-3000 psia		9		
162	2^0 PTxy	/methane/H_2O/	122-600 F	200-2500 psia				
163	2^0 PTxy/LLE	/CO_2/H_2O/	60-250 F	100-3000 psia				
164	2^0 PTxy/LLE	/H_2S/H_2O/	100-600 F	600-3000 psia				
165	2^0 PTxy/LLE	/n-pentane/H_2O/	100-600 F	100-3000 psia				
166	3^0 PTxy/LLE	/methane/n-pentane/H_2O/	100-600 F	450-3000 psia				
167	multicomponent PT	/NH_3/CO_2/H_2S/H_2O/CO/N_2/methane/H_2/	100-400 F	<1000 psia				
168	gas solubility	/N_2/ in /hexamethylenediamine/	43,50,60 C					

index number	type of measurement	system	T	P	x	# of points		
169	gas solubility	/N_2/ in 2.6wt% /NH_3/97.4wt% /hexamethylenediamine/	50 C			2		
170	2^0 SLE	/ethyne/ in /methane/	-202,-274			2		
171	3^0 SLE	/ethyne/ in /methane/ethane/	-202,-274			4		
172	2^0 SLE	/ethyne/ in /ethene/	-202,-274			2		
173	3^0 PTxy	/H_2/methane/ethene/	-148 F	588 psia				
174	4^0 PTxy	/H_2/methane/ethene/ethyne/	-143 F	418 psia		1		
175	5^0 PTxy	/H_2/methane/ethane/ethene/ethyne/	-144,-140,-51,32 F			4		
176	4^0 SVLE	/H_2/methane/ethene/ethyne/	-202,-274 F	500 psia		2		
177	2^0 PTx	/NH_3/H_2O/	313-589 K		8 isotherms			
178	2^0 PTxy	/NH_3/H_2O/	313-589 K					
179	Vbar	/NH_3/H_2O/	313-589 K					
180	2^0 VLLE	/H_2O/n-hexane/	100-430 F	<800 psia		5		
181	2^0 VLLE	/H_2O/n-octane/	100-540 F	<1300 psia		6		
182	2^0 VLLE	/H_2O/1-octene/	100-530 F	<1400 psia		6		
183	2^0 VLLE	/H_2O/ethylcyclohexane/	100-540 F	<1300 psia		6		
184	2^0 VLLE	/H_2O/ethylbenzene/	100-540 F	<1300 psia		6		
185	2^0 VLLE	/H_2O/n-butylcyclohexane/	100-530 F	<1100 psia		6		
186	2^0 VLLE	/H_2O/m-diethylbenzene/	100-530 F	<1100 psia		6		
187	2^0 VLLE	/H_2O/1-methylnaphthalene/	100-530 F	<1000 psia		6		
188	2^0 VLLE	/H_2O/p-diisopropylbenzene/	100-530 F	<1100 psia		6		
189	2^0 VLLE	/H_2O/1-ethylnaphthalene/	100-530 F	<1000 psia		6		
190	3^0 VLLE	/H_2S/n-octane/H_2O/	100-500 F	<1200 psia		13		
191	3^0 VLLE	/H_2S/ethylcyclohexane/H_2O/	100-400 F	<1100 psia		12		
192	3^0 VLLE	/H_2S/ethylbenzene/H_2O/	100-500 F	<1400 psia		14		
193	2^0 PTx	/1,2-dichloroethane/vinyl chloride/	20-100 C		4 isotherms			
194	2^0 PTx	/1,1,2-trichloroethane/vinyl chloride/	20-100 C		4 isotherms			
195	2^0 PTx	/acetonitrile/vinyl chloride/	20-100 C		4 isotherms			
196	2^0 PTx	/acetonitrile/1-butyne/	0-80 C		4 isotherms			
197	2^0 PTx	/acetonitrile/vinylacetylene/	0-80 C		>50mol% AN	isotherms		
198	2^0 PTx	/triethylamine/2-butanone/	20-100 C		4 isotherms			
199	2^0 PTx	/acetonitrile/HCN/	25,80 C					
200	3^0 PTxy	/NH_3/H_2S/H_2O/	300,400,500 F			6		
201	3^0 PTxy	/NH_3/CO_2/H_2O/	300,400,500 F			6		
202	4^0 PTxy	/NH_3/CO_2/H_2S/H_2O/	200-500 F			6		
203	2^0 PTxy	/HCl/dichlorodifluoromethane (R-12)/	-10,40 C		0-100%	12		
204	2^0 PTxy	/hydrazine/H_2O/	190 C			2		
205	2^0 PTxy	/acetone/H_2O/	143 C			1		
206	2^0 PTx (flow)	/acetone/ketazine/	140 C					
207	2^0 PTx	/ketazine/H_2O/	150 C					

index number	type of measurement	system	T	P	x	# of points		
208	2^0 PTxy	/ketazine/H_2O/	150 C			6		
209	2^0 PTxy/rxn	/ketazine/H_2O(acetone/hydrazone)/	150 C	84 psia				
210	3^0 PTxy/rxn	/ketazine/H_2O/acetone(hydrazone)/	150 C	118 psia				
211	3^0 PTxy/rxn	/hydrazine/H_2O/acetone(hydrazone/ketazine)/	153 C			5		
212	heat of rxn	/acetone/ with 99wt%H_2O/1wt% hydrazine/	25 C			11		
213	kinetic	/H_2O/ketazine/	150 C			3		
214	kinetic	/hydrazone/ to /hydrazine/ and /ketazine/	190 C			7		
215	ΔH mix	/N_2/H_2O/	800-1200 F	500-2500 psia				
216	ΔH mix	/CO_2/H_2O/	800-1200 F	500-2500 psia				
217	ΔH mix	/H_2/H_2O/	800-1200 F	500-2500 psia				
218	ΔH mix	/methane/H_2O/	600-1000 F	500-2500 psia				
219	ΔH mix	/CO/H_2O/	600-800 F	500-2000 psia				
220	gas solubility	/ethene/methanol/	70-250 F					
221	gas solubility	/ethene/dimethyl succinate/	70-300 F					
222	gas solubility	/CO/methanol/	86-250 F					
223	gas solubility	/CO/dimethyl succinate/	66-300 F					
224	gas solubility	/O_2/methanol/	70,190,250 F					
225	gas solubility	/O_2/dimethyl succinate/	70-250 F					
226	gas solubility	(/ethene/CO/O_2/CO_2/) in (60wt%methanol/35wt%dimethyl succinate/5wt% H_2O)	250 F	500 psia				
227	Cp(liquid)	/methanol/H_2O/	50,200,400,600	350 psia	70:30 mol%			
228	Cp(liquid)	/methanol/H_2O/	200,300 F	350 psia	30:70 mol%			
229	Cp(liquid)	/propene/1-butene/n-pentane/n-hexane/m-xylene/	50,100 F	80 psia	20:15:10:15:20:20			
230	Cp(vapor)	/methanol/H_2O/dimethyl ether/	600,700,800 F	350 psia	18:54:28 mol%			
231	Cp(vapor)	/methanol/H_2O/propane/isopentane/	300,400 F	350 psia	20:15:50:15 mol%			
232	Cp(vapor)	/dimethyl ether/ethene/propene/1-butene/n-pentane/	100,200 F	80 psia	30:40:20:5:5mol%			
233	Cp(vapor)	/methanol/H_2O/dimethyl ether/ethene/n-pentane/	600,800 F	80 psia	7:83:5:4:1mol%			
234	2^0 PTx	/HCl/trichlorosilane/	-28 C					
235	2^0 PTx	/HCl/silicontetrachloride/	-28 C					
236	2^0 VLLE	/methanethiol/H_2O/	100-600 F	500-3000 psia		16		
237	2^0 VLLE	/ethanethiol/H_2O/	100-600 F	100-3000 psia		12		
238	2^0 VLLE	/CS_2/H_2O/	100-400 F	100-2000 psia		8		
239	K(Henry)	/COS/H_2O/	40-100 F					
240	K(Henry)	/CS_2/H_2O/	40-400 F					
241	K(Henry)	/methanethiol/H_2O/	100-600 F					
242	K(Henry)	/ethanethiol/H_2O/	100-600 F					
243	3^0 PTx	/neodecanoic acid/sec-butyl alcohol/H_2O/	240,300 F			6		
244	2^0 PTx	/sec-butyl alcohol/neodecanoic acid/	300 F		<70mol%sBA	6		
245	2^0 PTx	/trans-2-butene/neodecanoic acid/	300 F		<60mol%t2C_4=	5		

index number	type of measurement	system	T	P	x	# of points		
246	P*	/neodecanoic acid/	255-360 F			4		
247	solubility	/methanol/ from /methanol/H_2O/ in ethane	-160--80 F	550 psia		5		
248	solubility	/methanol/ from /methanol/H_2O/ in hydrocarbon mix C_1-C_6	-160--80 F			4		
249	2^0 PTxy	/NH_3/diethylenetriamine/	400 F		<50mol% NH_3	4		
250	2^0 PTxy	/NH_3/tetraethylenepentamine/	400 F		<60mol% NH_3	5		
251	2^0 PTxy	/monoethanolamine/diethylenetriamine/	250,400 F		5-95mol%	12		
252	2^0 PTxy	/ethylenediamine/tetraethylenepentamine/	325,400 F		5-95mol%	12		
253	2^0 PTxy	/aminoethylpiperazine/diethylenetriamine/	275,400 F		5-95mol%	12		
254	2^0 PTxy	/H_2O/diethylenetriamine/	250,325,400 F		5-95mol%	18		
255	2^0 PTxy	/H_2O/piperazine/	250 F		5-95mol%	6		
256	2^0 PTx	/HCl/perfluoroethane(HFC-116)/	-5,20 F					
257	2^0 PTx	/HCl/perfluoropropane(HFC-218)/	-5,20 F					
258	P*	/sec-butyl-neo-decanoate/	107-190 C					
259	P*	/di-sec-butyl ether/	45-140 C					
260	P*	/neo-decanoic acid/	125-185 c					
261	2^0 PTx	/neo-decanoic acid/sec-butyl-neo-decanoate/	160 C					
262	2^0 PTx	/sec-butyl alcohol/sec-butyl-neo-decanoate/	240 F					
263	3^0 PTx	/sec-butyl alcohol/sec-butyl-neo-decanoate/neo-decanoic acid/	240 F					
264	γ(inf)	/H_2O/neo-decanoic acid/	200,300 F					
265	γ(inf)	/sec-butyl alcohol/neo-decanoic acid/	200,300 F					
266	γ(inf)	/di-sec-butyl ether/neo-decanoic acid/	200,300 F					
267	γ(inf)	/1-octene/neo-decanoic acid/	200,300 F					
268	γ(inf)	/H2O/sec-butyl-neo-decanoate/	200 F					
269	γ(inf)	/sec-butyl alcohol/sec-butyl-neo-decanoate/	200 F					
270	γ(inf)	/di-sec-butyl ether/sec-butyl-neo-decanoate/	200 F					
271	γ(inf)	/1-octene/sec-butyl-neo-decanoate/	200 F					
272	3^0 PTxy	/CO_2/AsH_3/PH_3/	30 C		<2mol% CO_2/AsH_3	4		
273	2^0 PTx	/n-butane/sec-butanol/	120,200 F					
274	2^0 PTx	/trans-2-butene/sec-butanol/	102,200 F					
275	2^0 PTx	/n-butane/DMF?/	100,200 F					
276	2^0 PTx	/trans-2-butene/DMF?/	100,200 F					
277	2^0 PTx	/sec-butanol/SBE?/	200 F					
278	2^0 PTx	/sec-butanol/DMF?/	200 F					
279	2^0 solubility	/n-butane/ in /sec-butanol/	200,300 F					
280	2^0 solubility	/trans-2-butene/ in /sec-butanol/	200,300 F					
281	3^0 solubility	/trans-2-butene/n-butane/ in /sec-butanol/	200,300 F					
282	2^0 LLE	/n-butane/DMF?/	100 F					
283	γ(inf)	/n-butane/DMF?/	100,200,300 F					
284	γ(inf)	/trans-2-butene/DMF?/	100,200,300 F					
285	γ(inf)	/1-butene/DMF?/	100,200,300 F					

index number	type of measurement	system	T	P	x	# of points		
286	3^0 PTxy/chemequ	/isopropyl alcohol/H_2O/H_2SO_4/	180-280 F			24		
287	4^0 PTxy/chemequ	/isopropyl ether/isopropyl alcohol/H_2O/H_2SO_4/	180-280 F			7		
288	2^0 PTx	/HCl/chloroheptafluoropropane(CFC-217)/	-25,-15 C					
289	2^0 PTx	/Cl_2/chloroheptafluoropropane(CFC-217)/	25 C					
290	2^0 PTx	/HF/chloroheptafluoropropane(CFC-217)/	25 C					
291	2^0 LLE	/HF/chloroheptafluoropropane(CFC-217)/	-40,0 C					
292	2^0 LLE	/HF/chlorohexafluoropropane(CFC-216aa)/	5,25 C					
293	P*	/(HCFC-216aa)/	-40-+160 C					
294	P*	/1,2-dichloro-1,1,2,3,3,3-hexafluoropropane(CFC-216ba)/	0-160 C					
295	P*	/2-chloro-1,1,1,2,3,3,3-heptafluoropropane(CFC-217ba)/	-40-+110 C					
296	3^0 PTxy	/H_2/phenol/H_2O/	110-550 F	100-2000 psia				
297	2^0 PTxy	/H_2/phenol/	110-550 F	100-2000 psia				
298	3^0 PTxy	/CO_2/phenol/H_2O/	110-550 F	100-2000 psia				
299	2^0 PTxy	/CO_2/phenol/H_2O/	110-550 F	100-2000 psia				
300	2^0 PTx	/NH_3/phenol/	110 F					
301	2^0 PTxy	/NH_3/phenol/	200-550 F	100-2000 psia				
302	3^0 PTxy	/NH_3/phenol/H_2O/	200,400 F	<300 psia				
303	2^0 PTx	/ethyl acetate/trimethylamine/	0,90 C					
304	2^0 PTx	/t-butyl acetate/2-methylpropane/	20,60 C					
305	2^0 PTx	/dichloroethane/HCl/	-30,0 C					
306	2^0 PTx	/DMF?/1-butene/	20,90 C					
307	P*	/neopentanoic acid/	60-175 C					
308	P*	/neononanoic acid/	115-240 C					
309	P*	/neodecanoic acid/	100-240 C					
310	P*	/neotridecanoic acid/	150-260 C					
311	2^0 PTx	/neopentanoic acid/neononanoic acid/	90,150 C					
312	2^0 PTx	/neononanoic acid/neotridecanoic acid/	180,240 C					
313	2^0 PTx	/neopentanoic acid/neotridecanoic acid/	150 C					
314	Cp	/neodecanoic acid/	90-300 C			3		
315	Cp	/neopentanoic acid/	90-260 C			2		
316	2^0 PTxy	/diborane/silane/	-35 C		<=2mol% B_2H_6	4		
317	2^0 PTxy	/phosphine/silane/	-35 C		<=2mol% PH_3	4		
318	8^0 LLE	/1-butene/cis-2-butene/trans-2-butene/n-butane/sec-butyl ether/sec-butyl alcohol/H_2O/H_2SO_4/	120,140 F			2		
319	4^0 PTxy(rxn)	/isopropyl ether/isopropyl alcohol/H_2O/H_2SO_4/	180,272,280,250 F			16		
320	3^0 PTxy(rxn)	/sec-butyl alcohol/H_2O/H_2SO_4/	140-300 F			20		
321	3^0 VLLE	/H_2O/n-octane/n-docosane/	400,600 F			4		
322	3^0 VLLE	/H_2O/methane/n-decane/	400,500 F			4		
323	2^0 PTxy	/n-octane/n-docosane/	400,600 F			2		

index number	type of measurement	system	T	P	x	# of points		
324	2^0 PTx	/benzyl alcohol/acetophenone/	140,200 C					
325	2^0 PTx	/iodoethane/acetic acid/	20,125 C					
326	2^0 PTx	/iodoethane/methanol/	20,110 C					
327	2^0 PTx	/HF/chlorodifluoromethane(HCFC-22)/	-15,+25 C					
328	2^0 PTx	/2-methyl-2-pentene/2-methyl-2-propanol/	30,90 C					
329	2^0 PTx	/2-methyl-2-pentene/1,2-epoxypropane/	0,65 C					
330	P*	/4-hydroxyacetophenone/	130-180 C					
331	2^0 PTx	/phenol/H_2O/	100,200,240 C					
332	ρ(liq)	/diphenylmethane/	325-675 K	3-20 MPa				
333	ρ(liq)	/bicyclohexyl/	300-675 K	3-20 MPa				
334	ρ(liq)	/cyclohexylbenzene/	300-675 K	3-20 MPa				
335	ρ(liq)	/9,10-dihydrophenanthrene/	300-675 K	3-20 MPa				
336	ρ(liq)	/5,6,7,8-tetrahydro-1-naphthol/	300-675 K	3-20 MPa				
337	ρ(liq)	/9-fluorenone/	300-675 K	3-20 MPa				
338	ρ(liq)	/phenyldecane/	300-675 K	3-20 MPa				
339	2^0 PTx	/2-chloro-1,1,1,2,3,3,3-heptafluoropropane(CFC-217ba)/(CFC-216aa)/	-20,50,110 C					
340	2^0 PTx	/hexafluoro-1-propene(FC-1216)/2-chloro-1,1,1,2,3,3,3-heptafluoropropane(CFC-217ba)/	-40,20,70 C					
341	2^0 PTx	/hexafluoro-1-propene(FC-1216)/heptafluoropropane(HFC-227ea)/	-40,20,70 C					
342	2^0 PTx	/hexafluoro-1-propene(FC-1216)/1,1,1,2,3,3-hexafluoropropane(HFC-236ea)/	-40,20,70 C					
343	P*	/heptafluoropropane(F-227ea)/	230-360 K					
344	P*	/1,1,1,2,3,3-hexafluoropropane(HFC-236ea)/	230-360 K					
345	2^0 PTx	/acetic acid/isobutyl acetate/	45,90 C					
346	2^0 PTx	/acrylic acid/isobutyl acetate/	60,90 C		10-90mol%iBA	5		
347	2^0 PTx	/phosgene/o-dichlorobenzene/	30,50,120 C					
348	2^0 PTx	/HCl/o-dichlorobenzene/	-10 C					
349	ρ(liq)	/toluene/	150-600 F	600-2000 psia		18		
350	PVT	/toluene/	600-750 F	100-2000 psia		12		
351	ΔH	/toluene/	150-750 F	15-700 psia		18		
352	thermodynamic tab	/toluene/						
353	Cp	/phenylacetate/	30-210 C					
354	Cp	/2-hydroxyacetophenone/	30-210 C					
355	Cp	/4-hydroxyacetophenone/	130-250 C					
356	2^0 PTx	/1,2-epoxypropane/1,2-propanediol/	0,40 C					
357	2^0 PTx	/butyl methacrylate/methacrylic acid/	30,50 C					
358	2^0 PTx	/toluene/1-phenylethanol/	100,200 C					
359	gas solubility	/methane/triethylene glycol/	0,25 C	3-17 MPa		16		
360	2^0 PTx	/HCl/phosgene/	100 F					
361	2^0 PTx	/HCl/chlorobenzene/	-35,32,100 F					
362	2^0 PTx	/phosgene/chlorobenzene/	-35-280 F		5 isotherms			

index number	type of measurement	system	T	P	x	# of points		
363	3^0 PTx	/HCl/phosgene/chlorobenzene/	220,280 F			8		
364	P*	/chlorobenzene/	270-410 K					
365	P*	/1,1-dichloro-1-fluoroethane (FC-141b)/	300-480 K					
366	ρ(liq)	/1,1-dichloro-1-fluoroethane (FC-141b)/	300-470 K					
367	TcPc	/1,1-dichloro-1-fluoroethane (FC-141b)/						
368	K(rxn)	/1,1-dichloro-1-fluoroethane (FC-141b)/	452 K			70 hours		
369	2^0 PTx	/H_2O/ethylene glycol/	35 C					
370	2^0 PTx	/H_2O/ethylene glycol/		7 mmHg				
371	2^0 PTxy	/ethanol/ethylamine/	80,110 C		5-95mol%	5		
372	2^0 PTxy	/ethanol/diethylamine/	95 C		5-95mol%	5		
373	2^0 PTxy	/H_2O/ethylamine/	80,110 C		5-95mol%	6		
374	2^0 PTxy	/H_2O/diethylamine/	80,110 C		1-95mol%	4		
375	2^0 PTx	/HF/SO_2/	-10,30 C					
376	2^0 PTx	/HF/sulfuryl fluoride (SO_2F_2)/	-10,30 C					
377	3^0 PTx	/HF/sulfuryl fluoride (SO_2F_2)/SO_2/	-10,30 C			16		
378	7^0 PTxy/chemequ	/1-butene/n-butane/cis-2-butene/trans-2-butene/sec-butyl alcohol/H_2O/H_2SO_4/	55 C	60-80 psia		7		
379	P*	/$TiCl_4$/	160-350 C					
380	ρ(liq)	/$TiCl_4$/	20-330 C	500-2000 psia		8		
381	PVT	/$TiCl_4$/	190-400 C					
382	TcPc	/$TiCl_4$/						
383	bubble point	/NH_3/methylamine/	10-33 C	90-110 psia	10,40,70wt% NH_3	8		
384	2^0 PTx	/toluene/triglyme/	100 C					
385	2^0 PTx	/H_2O/triglyme/	60,100 C					
386	4^0 PTxy	/toluene/triglyme/H_2O/triethylene glycol/	100,180 C	~700 mmHg		3		
387	P*	/triglyme/	100-220 C					
388	ρ(liq)	/cyclohexane/	170,190,210 C	2000-10000 psia				
389	ρ(liq)	/methylcyclohexane/	170,190,210 C	2000-10000 psia				
390	ρ(liq)	/toluene/	170,190,210 C	2000-10000 psia				
391	ρ(liq)	/1,1-dichloro-1-fluoroethane (FC-141b)/	170,190,210 C	2000-10000 psia				
392	ρ(liq)	/2,2-dichloro-1,1,1-trifluoroethane(HCFC-123)/	170,190,210 C	2000-10000 psia				
393	2^0 PTx	/sulfuryl fluoride (SO_2F_2)/SO_2/	-30,-10,30 C					
394	3^0 PTx (reduce data	/HF/sulfuryl fluoride (SO_2F_2)/SO_2/	-10,30 C			16		
395	P*	/biphenol/	300-390 C					
396	P*	/3-t-butyl-4,4'-biphenol/	190-240 C					
397	2^0 PTxy	/biphenol/3-t-butyl-4,4'-biphenol/	290-300 C			5		
398	K (rxn)	/3-t-butyl-4,4'-biphenol/ to /biphenol/	293 C			12000 s		
399	P*	/6-methoxy-2-acetophenone/	130-350 C					
400	2^0 PTx	/1,1,1,2-tetrafluoroethane(HFC-134a)/1,2-dichloro-1,1,2,2-tetrafluoroethane(CFC-114)/	40,70 C					
401	2^0 PTx	/2-chloro-1,1,1,2-tetrafluoroethane(HCFC-124)/1,2-dichloro-1,1,2,2-tetrafluoroethane(CFC-114)/	50,80 C					

index number	type of measurement	system	T	P	x	# of points		
402	2^0 PTx	/1,1-dichlorotetrafluoroethane(CFC-114a)/1,2-dichloro-1,1,2,2-tetrafluoroethane(CFC-114)/	0,40,80 C					
403	2^0 PTx	/2-chloro-1,1,1,2-tetrafluoroethane(HCFC-124)/1,1-dichlorotetrafluoroethane(CFC-114a)/	50,80 C					
404	P*	/1,1,1,2-tetrafluoroethane(HFC-134a)/	0-90 C					
405	2^0 PTx	/adiponitrile/H_2O/	85,150,215 C					
406	P*	/adiponitrile/		0.1-220 mmHg				
407	P*	/sec-butyl-neo-heptanoate/	70-180 C					
408	P*	/neo-heptanoic acid/	80-160 C					
409	2^0 PTx	/neo-heptanoic acid/sec-butyl-neo-heptanoate/	120 C					
410	γ(inf)	/sec-butyl alcohol/2-methyl-2-butanol/2-pentanol/H_2O in neo-heptanoic acid/	80,160 C					
411	γ(inf)	/sec-butyl alcohol/2-methyl-2-butanol/2-pentanol/H_2O in sec-butyl-neo-heptanoate/	80,160 C					
412	γ(inf)	/sec-butyl alcohol/2-methyl-2-butanol/2-pentanol/H_2O in 50wt% sec-butyl-neo-heptanoate/50wt% neo-heptanoic acid/	120 C					
413	3^0 PTx	/neo-heptanoic acid/sec-butyl-neo-heptanoate/sec-butyl alcohol/	80,160 C			18		
414	PVT	/formic acid/	330-410 K	5-250 kPa		27		
415	ΔH vaporization	/formic acid/	350-450 K	50-700 kPa		5		
416	PVT	/propanoic acid/	370-450 K	10-230 kPa		29		
417	ΔH vaporization	/propanoic acid/	330-430 K	3-200 kPa		5		
418	ΔH vaporization	/butanoic acid/	400-500 K	50-450 kPa		5		
419	PVT	/pentanoic acid/	400-470 K	1-120 kPa		40		
420	ΔH vaporization	/pentanoic acid/	430-570 K	5-1300 kPa		5		
421	ΔH vaporization	/hexanoic acid/	450-530 K	20-400 kPa		4		
422	ΔH vaporization	/2-methylpropanoic acid/	340-420 K	2-70 kPa		2		
423	PVT	/acrylic acid/	370-450 K	2-150 kPa		17		
424	ΔH vaporization	/acrylic acid/	360-440 K	20-200 kPa		4		
425	PVT	/methacrylic acid/	400-470 K	5-200 kPa		25		
426	ΔH vaporization	/methacrylic acid/	340-410 K	2-50 kPa		5		
427	2^0 PTx	/HF/1,1-dichloro-1-fluoroethane (HCFC-141b)/	30,50 C					
428	2^0 PTx	/HF/1-chloro-1,1-difluoroethane (HCFC-142b)/	30,50 C					
429	2^0 PTx	/1,1-dichloro-1-fluoroethane (HCFC-141b)/1-chloro-1,1-difluoroethane (HCFC-142b)/	0,50 C					
430	3^0 PTx	/1,1-dichloro-1-fluoroethane (HCFC-141b)/1-chloro-1,1-difluoroethane (HCFC-142b)/HF/	50 C					
431	2^0 PTx	/1,1-dichloro-1-fluoroethane (HCFC-141b)/pentafluorobutane (HFC-365)/	40 C					
432	2^0 PTx	/chloropentafluoroethane(CFC-115)/pentafluoroethane(HFC-125)/	-25,0,+25 C					

index number	type of measurement	system	T	P	x	# of points		
433	2^0 PTx	/1,1-dichlorotetrafluoroethane(CFC-114a)/2-chloro-1,1,1-trifluoroethane(HCFC-133a)/	60,80 C					
434	2^0 PTx	/2-chloro-1,1,1,2-tetrafluoroethane(HCFC-124)/2-chloro-1,1,1-trifluoroethane(HCFC-133a)/	40,60 C					
435	2^0 PTx	/1,1,1-trichlorotrifluoroethane(CFC-113a)/1,1-dichlorotetrafluoroethane(CFC-114a)/	50,80 C					
436	2^0 PTx	/1,1,1-trichlorotrifluoroethane(CFC-113a)/1,2-dichlorotetrafluoroethane(CFC-114)/	50,80 C					
437	2^0 PTx	/1,1,2-trichlorotrifluoroethane(CFC-113)/1,1-dichlorotetrafluoroethane(CFC-114a)/	50,80 C					
438	2^0 PTx	/HF/dichlorodifluoromethane (CFC-12)/	55,109 F					
439	2^0 PTx	/HF/trichlorofluoromethane (CFC-11)/	75,109 F					
440	2^0 LLE	/HF/trichlorofluoromethane (CFC-11)/	75,109 F					
441	2^0 PTx	/perchloroethylene/1,1,2-trichloro-2,2-difluoroethane(HCFC-122)/	50,150 C					
442	2^0 PTx	/HF/1,1,2-trichloro-2,2-difluoroethane(HCFC-122)/	0-175 C		4 isotherms			
443	2^0 PTx	/HF/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/	50,150,175 C					
444	3^0 PTx	/HF/pentafluorobutane (HFC-365)/1,1-dichloro-1-fluoroethane (HCFC-141b)/	50 C		<6mol% 141b			
445	2^0 PTx	/1,1-dichlorotetrafluoroethane(CFC-114a)/1-chloro-1,1,2,2-tetrafluoroethaneHCFC-124a)/	0,70 C					
446	2^0 PTx	/1,2-dichlorotetrafluoroethane(CFC-114)/1-chloro-1,1,2,2-tetrafluoroethaneHCFC-124a)/	0,70 C					
447	3^0 PTx	/1-chloro-1,1,2,2-tetrafluoroethane(HCFC-124a)/1,1,1,2-tetrafluoroethane(HFC-134a)/1,2-dichlorotetrafluoroethane(CFC-114)/	0,50 C		<4mol% 114			
448	2^0 PTx	/1,1-dichlorotetrafluoroethane(CFC-114a)/1,1,1,2-tetrafluoroethane(HFC-134a)/	0, C					
449	3^0 PTxy	/hexadecane/H_2S/H_2/	350,550,750 F	2000 psia		3		
450	3^0 PTxy	/1-methylnaphthalene/H_2S/H_2/	350,550,800 F	2000 psia		3		
451	3^0 PTxy	/bicyclohexyl/H_2S/H_2/	350,550,750 F	2000 psia		3		
452	3^0 PTxy	/API sample/H_2S/H_2/	350,550,700 F	2000 psia		3		
453	3^0 PTxy	/hexadecane/H_2O/H_2/	350,550,750 F	2000 psia		3		
454	3^0 PTxy	/1-methylnaphthalene/H_2O/H_2/	350,550,800 F	2000 psia		3		
455	3^0 PTxy	/bicyclohexyl/H_2O/H_2/	350,550,750 F	2000 psia		3		
456	3^0 PTxy	/API sample/H_2O/H_2/	350,550,700 F	2000 psia		3		
457	3^0 PTxy	/hexadecane/NH_3/H_2/	350,550,750 F	2000 psia		3		
458	3^0 PTxy	/1-methylnaphthalene/NH_3/H_2/	350,550,800 F	2000 psia		3		
459	3^0 PTxy	/bicyclohexyl/NH_3/H_2/	350,550,750 F	2000 psia		3		
460	3^0 PTxy	/API sample/NH_3/H_2/	350,550,700 F	2000 psia		3		
461	2^0 PTx	/hexadecane/H_2O/	350 F		<25mol% H_2O			
462	2^0 PTx	/1-methylnaphthalene/H_2O/	350 F		<15mol% H_2O			

index number	type of measurement	system	T	P	x	# of points		
463	P*	/adamantane/	50-230 C					
464	P*	/diamantane/	80-220 C					
465	2^0 LLE	/HF/1,1-dichloro-1-fluoroethane(HCFC-141b)/	-20-+50 C			5		
466	2^0 LLE	/HF/1-chloro-1,1-difluoroethane(HCFC-142b)/	-20-+10 C			4		
472	P*	/2-amino-1-methoxypropane/	65-400 F					
473	P*	/DMTO (keto/enol C_6H_8SO)/	109-360 F					
474	P*	/$C_{10}H_{17}NOS$?/	180-370 F					
475	P*	/$C_{12}H_{18}ClNO_2S$?/	240-370 F					
476	2^0 PTx	/H_2O/2-amino-1-methoxypropane/	104 F					
477	2^0 PTx	/DMTO? (keto/enol C_6H_8SO)/$C_{10}H_{17}NOS$?/		37.5 mmHg				
478	2^0 PTx	/n-heptane/$C_{12}H_{18}ClNO_2S$?/		9 mmHg				
479	4^0 PTxy	/2-amino-1-methoxypropane/H_2O/DMTO(keto/enol)/2-amino-1-methoxypropane*HCl/	112 F		<0.2mol% unknown	2		
480	3^0 PTxy	/2-amino-1-methoxypropane/H_2O/DMTO(keto/enol)/	111 F		<0.2mol% unknown	1		
481	2^0 PTxy	/DMTO?/$C_{10}H_{17}NOS$?/	276 F		18wt% unknowns	1		
482	5^0 PTxy	/H_2O/methanol/NaCl/NaOH/Na*DMTO?/	195 F			1		
483	2^0 PTx	/N,N-dimethylformamide/n-butanol/	65,125 C					
487	dew point	/ethene/methanol/	35 C		10-20wt% MeOH	4		
488	2^0 PTx	/propane/1,3-butadiene/	30 C					
489	2^0 PTx	/propene/1,3-butadiene/	30 C					
490	2^0 PTx	/propene/propadiene/	0,55 C					
491	4^0 PTxy	/propane/propene/propadiene/propyne/	15,35 C	131 psia				
492	5^0 PTxy	/propane/propene/propadiene/propyne/isobutane/	25,35 C			3 points		
493	5^0 PTxy	/propane/propene/propadiene/propyne/isobutene/	25,35 C			2 points		
494	5^0 PTxy	/propane/propene/propadiene/propyne/1,3-butadiene/	25,35 C			2 points		
495	P*	/diisoctyl ether/	90-230 C					
496	P*	/diisodecyl ether/	130-250 C					
497	P*	/diisotridecyl ether/	150-250 C					
498	2^0 PTx	/diisooctyl ether/diisooctylphthalate/	180 225 C					
499	2^0 PTx	/diisodecyl ether/diisodecylphthalate/	200,220 C					
500	P*	/2,4,6-trimethylanisole/	90-210 C					
501	2^0 PTx	/2,6-xylenol/2,4,6-trimethylanisole/	203 C					
502	2^0 PTx	/1,4-phenylene diisocyanate/chlorobenzene/	163 C		<60mol% MCB			
503	2^0 PTx	/1,4-phenylene diisocyanate/1,2-dichlorobenzene/	155 C		<60mol% DCB			
504	2^0 PTx	/1,2,3,4-tetramethylbenzene/naphthalene/	145 C					
505	2^0 PTx	/pentamethylbenzene/naphthalene/	145 C					
506	liquid viscosity	/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/	-70-200 F			5 temp		
507	liquid viscosity	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	-70-200 F			5 temp		
508	liquid viscosity	/1,1,1,2-tetrafluoroethane(HFC-134a)/	-70-200 F			5 temp		
509	liquid viscosity	/1,1-dichloro-1-fluoroethane (HCFC-141b)/	-70-200 F			5 temp		

index number	type of measurement	system	T	P	x	# of points		
510	vapor viscosity	/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/	100-300 F			5 temp		
511	vapor viscosity	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	100-300 F			5 temp		
512	vapor viscosity	/1,1,1,2-tetrafluoroethane(HFC-134a)/	100-300 F			5 temp		
513	vapor viscosity	/1,1-dichloro-1-fluoroethane (HCFC-141b)/	100-300 F			5 temp		
514	Cp (liq)	/1,1,1,2-tetrafluoroethane(HFC-134a)/	-70-200 F			5 temp		
515	Cp (liq)	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	-70-235 F			6 temp		
516	Cp (liq)	/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/	-70-300 F			7 temp		
517	Cp (liq)	/1,1-dichloro-1-fluoroethane (HCFC-141b)/	-70-300 F			7 temp		
518	Cp (vap)	/1,1,1,2-tetrafluoroethane(HFC-134a)/	0-250 F			5 temp		
519	Cp (vap)	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	0-300 F			6 temp		
520	Cp (vap)	/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/	77-300 F			5 temp		
521	Cp (vap)	/1,1-dichloro-1-fluoroethane (HCFC-141b)/	77-300 F			5 temp		
522	therm cond (liq)	/1,1-dichloro-1-fluoroethane (HCFC-141b)/	-60-120 C			6 temp		
523	therm cond (liq)	/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/	-60-120 C			6 temp		
524	therm cond (liq)	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	-60-60 C			4 temp		
525	therm cond (liq)	/1,1,1,2-tetrafluoroethane(HFC-134a)/	-60-60 C			4 temp		
526	therm cond (vap)	/1,1-dichloro-1-fluoroethane (HCFC-141b)/	40-120 C			4 temp		
527	therm cond (vap)	/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/	40-120 C			4 temp		
528	therm cond (vap)	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	0-120 C			3 temp		
529	therm cond (vap)	/1,1,1,2-tetrafluoroethane(HFC-134a)/	0-120 C			3 temp		
530	liquid viscosity	/(HCFC-502)/	220-330 K	400 psia		5		
531	liquid viscosity	/pentafluoroethane(HFC-125)/	220-330 K	400 psia		5		
532	liquid viscosity	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/1,1-difluoroethane(HFC-152a)/chlorodifluoromethane(HCFC-22)/	220-330 K	400 psia		5		
533	vapor viscosity	/pentafluoroethane(HFC-125)/	310-420 K	13.5 psia		5		
534	vapor viscosity	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/1,1-difluoroethane(HFC-152a)/chlorodifluoromethane(HCFC-22)/	310-420 K	13.5 psia		5		
535	Cp (liq)	/pentafluoroethane(HFC-125)/	220-330 F	500 psia		5		
536	Cp (liq)	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/1,1-difluoroethane(HFC-152a)/chlorodifluoromethane(HCFC-22)/	220-330 F	500 psia		7		
537	Cp (vap)	/pentafluoroethane(HFC-125)/	230-330 K	19 psia		5		
538	Cp (vap)	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/1,1-difluoroethane(HFC-152a)/chlorodifluoromethane(HCFC-22)/	270-350 K	19 psia		5		
539	therm cond (liq)	/pentafluoroethane(HFC-125)/	220-340 K			4		
540	therm cond (liq)	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/1,1-difluoroethane(HFC-152a)/chlorodifluoromethane(HCFC-22)/	220-330 K			4		
541	therm cond (vap)	/pentafluoroethane(HFC-125)/	240-330 K			3		

index number	type of measurement	system	T	P	x	# of points		
542	therm cond (vap)	/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/1,1-difluoroethane(HFC-152a)/chlorodifluoromethane(HCFC-22)/	250-370 K			3		
543	2^0 PTx	/1,1-dichloro-1-fluoroethane(HCFC-141b)/1,1,1-trichloroethane/	60,100 C					
544	2^0 PTxy	/1,1-dichloro-1-fluoroethane(HCFC-141b)/1,1,1-trichloroethane/	60,100 C			4		
545	2^0 PTx	/HF/1,1-dichloro-1-fluoroethane(HCFC-141b)/	30,50 C					
546	2^0 VLLE	/HF/1,1-dichloro-1-fluoroethane(HCFC-141b)/	10,30,50 C			3		
547	2^0 LLE	/1,1,2-trichloro-2,2-difluoroethane(HCFC-122)/HF/	0-130 C			4		
548	2^0 LLE	/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/HF/	-20-+75 C			4		
550	2^0 LLE	/HF/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	-40,-20,-10 C			3		
551	3^0 LLE	/HF/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/H_2O/	-20,0,+10 C		<1wt% H_2O	2		
552	3^0 LLE	/HF/pentafluoroethane(HFC-125)/H_2O/	-70--45 C		1wt% H_2O	4		
553	2^0 PTx	/1,1,1,2-tetrafluoroethane(HFC-134a)/chloropentafluoroethane(CFC-115)/	0,25,50 C					
554	2^0 PTx	/chloropentafluoroethane(CFC-115)/1,1,1-trifluoroethane(HFC-143a)/	0,25,50 C					
555	2^0 PTx	/1,1,1,2-tetrafluoroethane(HFC-134a)/1,1,1-trifluoroethane(HFC-143a)/	0,25 C					
556	2^0 PTx	/HF/pentafluoroethane(HFC-125)/	-20,+20 C					
557	2^0 PTx	/HCl/pentafluoroethane(HFC-125)/	-10 C					
558	2^0 PTx	/tetrahydrofuran/2,3-dihydrofuran/	10,60 C					
559	2^0 PTx	/tetrahydrofuran/2-methyltetrahydrofuran/	10,60 C					
560	2^0 PTx	/H_2O/2,5-dihydrofuran/	60,200 C					
561	2^0 LLE	/H_2O/2,5-dihydrofuran/	60 C			1		
562	2^0 PTx	/H_2O/diethanol amine/	100,200 C					
563	2^0 PTx	/1,2-propanediol/1-methoxy-2-propanol/	75,120 C					
564	2^0 PTx	/dipropylene glycol monomethyl ether/1,2-propanediol/	100,180 C					
565	2^0 PTx	/acetophenone/propene/	25,60 C					
566	2^0 PTx	/dimethyldisulfide/methanethiol/	0,100 C					
567	P*	/diamantane(sol & liq)/	107-280 C					
568	P*	/hexyl acetate/	52-170 C					
569	P*	/dihexyl phthalate/	185-245 C					
570	P*	/diisodecyl phthalate/	210-260 C					
571	P*	/dioctyl adipate/	170-230 C					
572	P*	/diisodecyl adipate/	185-240 C					
573	2^0 PTx	/1-hexanol/hexyl acetate/	100,150 C					
574	2^0 PTx	/H_2O/ in /dihexyl phthalate/	100 C		<25mol% H_2O			
575	γ(inf)	/H_2O/ in /dihexyl phthalate/	100,150 C					

index number	type of measurement	system	T	P	x	# of points		
576	γ(inf)	/1-hexanol/ in /dihexyl phthalate/	100,150 C					
577	γ(inf)	/H_2O/ in /dihexyl phthalate/	150 C					
578	γ(inf)	/1-decanol/ in /dihexyl phthalate/	150 C					
579	γ(inf)	/H_2O/ in /dioctyl adipate/	110,150 C					
580	γ(inf)	/2-ethyl-1-hexanol/dioctyl adipate/	110,150 C					
581	γ(inf)	/H_2O/ in /diisodecyl adipate/	150 C					
582	γ(inf)	/1-decanol/ in /diisodecyl adipate/	150 C					
583	γ(inf)	/H_2O/ in /trioctyltrimellitate/	110,150 C					
584	γ(inf)	/2-ethyl-1-hexanol/trioctyltrimellitate/	110,150 C					
585	γ(inf)	/H_2O/ in /(2,2-dimethoxy-1-butanol) decanoate/	100,150 C					
586	γ(inf)	/decanoic acid/ in /(2,2-dimethoxy-1-butanol) decanoate/	175,225 C					
587	γ(inf)	/H_2O/ in /hexyl acetate/	50,100 C					
588	3^0 LLE	/HF/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/1,1,2-trichloro-2,2-difluoroethane(HCFC-122)/	110,130 C			5		
589	3^0 PTxy	/HF/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/1,1,2-trichloro-2,2-difluoroethane(HCFC-122)/	130 C	422 psia		1		
590	2^0 PTx	/CL_2/1,1-dichloro-1-fluoroethane(HCFC-141b)/		3,6 bars				
591	2^0 VLLE	/HF/1,1-dichloroethene/	-20,0 C			2		
592	2^0 PTx	/γ-butyrolactone/1-butanol/	140 C					
593	2^0 PTxy	/succinic acid/H_2O/	215 C					
594	2^0 VLLE	/HF/1,1,1-trichlorotrifluoroethane(CFC-113a)/	20,100 C			2		
595	2^0 VLLE	/HF/1,1-dichlorotetrafluoroethane(CFC-114a)/	20,100 C			2		
596	2^0 PTx	/HF/Cl_2/	110 F					
597	2^0 PTx	/Cl_2/chlorodifluoromethane(HCFC-22)/	110 F					
598	therm cond (vap)	/chlorodifluoromethane(HCFC-22)/	60,90,120 C	ambient		3		
599	therm cond (vap)	/trichlorofluoromethane(HCFC-11)/	60,90,120 C	ambient		3		
600	therm cond (vap)	/dichlorodifluoromethane(HCFC-12)/	60,90,120 C	ambient		3		
601	therm cond (vap)	/trichlorofluoromethane(HCFC-11)/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/	60,90,120 C	ambient	50mol%	3		
602	therm cond (vap)	/trichlorofluoromethane(HCFC-11)/1,1-dichloro-2-fluoroethane(HCFC-141b)/	60,90,120 C	ambient	50mol%	3		
603	therm cond (vap)	/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/1,1-dichloro-2-fluoroethane(HCFC-141b)/	60,90,120 C	ambient	65mol% 123	3		
604	therm cond (vap)	/N_2/	60,90,120 C	ambient		3		
605	2^0 PTx	/acetophenone/benzaldehyde/		50 mmHg				
606	3^0 LLE	/HF/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	-40,-20 C			10		
607	3^0 LLE	/HF/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/pentafluoroethane(HFC-125)/	-40,-20 C			8		
608	3^0 LLE	/HF/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/pentafluoroethane(HFC-125)/	-40,-20 C			7		

index number	type of measurement	system	T	P	x	# of points		
609	4^0 LLE	/HF/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/pentafluoroethane(HFC-125)/	-20 C			3		
610	2^0 PTx	/perfluorobutane/nonafluorobutane/	45 C					
611	2^0 PTx	/perfluoropentane/n-hexane/	45,65 C					
612	2^0 PTx	/perfluorohexane/tridecafluorohexane/	60 C					
613	2^0 PTx	/perfluorohexane/n-hexane/	60,80 C					
614	2^0 PTx	/perfluoropentane/perfluorohexane/	45 C					
615	2^0 PTx	/perfluorooctane/heptadecafluorooctane/	110 C					
616	2^0 PTx	/perfluorooctane/n-octane/	80,100 C					
617	P*	/nonafluorobutane/	0-90 C					
618	P*	/tridecafluorohexane/	25-100 C					
619	P*	/heptadecafluorooctane/	30-125 C					
620	P*	/perfluorooctane/	30-115 C					
621	2^0 PTx	/2-methylbutane/1-propanol/	0,50,100 C					
622	2^0 PTxy	/2-methylbutane/1-propanol/	50 C			1		
623	3^0 VLLE	/2-methylbutane/1-propanol/H_2O/	25 C			2		
624	TcPcVc	/pentafluorethane(HFC-125)/						
625	P*	/pentafluorethane(HFC-125)/	195-339 K					
626	ρ(liq)	/pentafluorethane(HFC-125)/	200-450 K	<100 bars				
627	ΔH	/pentafluorethane(HFC-125)/				14		
628	thermodynamic tab	/pentafluorethane(HFC-125)/						
629	γ(inf)	/H_2O in maleic anhydride/	80,100,120 C					
630	2^0 PTx	/HCl/1,1-dichlorotetrafluoroethane(CFC-114a)/	0,40 C					
631	2^0 PTx	/HCl/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	0,40 C					
632	2^0 PTx	/HCl/1,1,1,2-tetrafluoroethane(HFC-134a)/	-20,0,+40 C					
633	2^0 PTx	/HF/1-chloro-1,2,2,2-tetrafluoroethane(HCFC-124)/	20,40 C					
634	2^0 PTx	/HF/1,1,1,2-tetrafluoroethane(HFC-134a)/	-20,+40 C					
635	2^0 PTx	/HF/chlorodifluoromethane(HCFC-22)/	110 F					
636	2^0 PTx	/γ-butyrolactone/H_2O/	251 C					
637	2^0 PTx	/1,1-dichlorotetrafluoroethane(CFC-114a)/(CFC-115)/	10 C					
638	2^0 PTx	/1,1-dichlorotetrafluoroethane(CFC-114a)/pentafluoroe	10 C					
639	2^0 PTx	/HF/perfluoromethylsulfonylfluoride/	-35,-5 C					
640	2^0 PTx	/HF/sulfuryl fluoride (SO_2F_2)/	-35,-5 C					
641	2^0 PTx	/perfluoromethylsulfonylfluoride/sulfuryl fluoride (SO_2F_2)/	-35,-5 C					
642	2^0 PTx	/perfluoropropane/propane/	70,105 F					
643	2^0 PTx	/perfluorobutane/n-butane/	70,105 F					
644	gas solubility	/H_2/HF/	-70-+50 C	250-2000 psia		6 temps		
645	P*	/2-(6-methoxy-2-naphthyl)-3-pentanone/	160-350 C					
646	P*	/n-propyl-(dl-2-(6-methoxy-2-naphthyl)-propanoate/	180-310 C					
647	P*	/dl-2-(6-methoxy-2-naphthyl)-propanoic acid/	175-240 C					

index number	type of measurement	system	T	P	x	# of points		
650	2^0 PTx	/propane/HCl/	-70-0 C			4 temps		
651	gas solubility	/H_2 in HCl/	-70--15 C	500-2500 psia		4 temps		
652	gas solubility	/H_2/ in /propane/HCl/	-30,-15,0 C	500-2500 psia				
653	therm cond (liq)	/perfluoropentane/	0-110 C			4		
654	therm cond (liq)	/perfluorohexane/	0-150 C			3		
655	therm cond (liq)	/perfluoro-N-methyl morpholine/	0-150 C			3		
656	therm cond (vap)	/perfluoropentane/	35-160 C			3		
657	therm cond (vap)	/perfluorohexane/	60-160 C			3		
658	therm cond (vap)	/perfluoro-N-methyl morpholine/	60-160 C			3		
659	2^0 PTxy	/HCl/methane/	-60,-30,0 C			21		
660	3^0 PTxy	/HCl/methane/H_2/	-30,0			8		
666	2^0 PTx	/2,3-epoxy-1-propanol/H_2O/	50,100 C					
667	2^0 PTx	/3-chloro-1,2-propanediol/H_2O/	50,100 C					
668	2^0 PTx	/acetaldehyde/1,2-epoxyethane/	50,100 C					
669	2^0 PTx	/1,2-dichloro-2-propanol/H_2O/	100 C					
670	2^0 LLE	/1,2-dichloro-2-propanol/H_2O/	50 C					
671	2^0 PTx	/2,3-dichloro-1-propanol/H_2O/	100 C					
672	2^0 LLE	/2,3-dichloro-1-propanol/H_2O/	50 C					
673	surface tension	/ethane/propane/n-butane/n-pentane/	80,94,100 C		0,2mol% C_2H_6			
678	2^0 PTx	/HF/1,1,2-trichloro-2,2-difluoroethane(HCFC-122)/		4,12 bar				
679	2^0 VLLE	/HF/1,1,2-trichloro-2,2-difluoroethane(HCFC-122)/	10-100 C			4		
680	2^0 LLE	/HF/1,1-dichloro-2,2,2-trifluoroethane(HCFC-123)/	10,30,60 C			3		
681	2^0 PTx	/H_2O/2-propanol/	170 C					
682	2^0 PTxy	/2-propanol/propene/	170 C					
685	4^0 LLE	/HF/1,1-dichloro-1-fluoroethane(HCFC-141b)/1-chloro-1,1-difluoroethane(HCFC-142b)/pentafluorobutane(HFC-365)/	0,20 C			7		
700	2^0 PTx	/chloromethane/HCl/	-90,-30,0 C					
701	2^0 PTx	/dichloromethane/HCl/	-30,+25 C					
702	2^0 PTx	/trichloromethane/HCl/	-30,+25 C					
704	2^0 PTx	/2-butanone/tetrahydrofuran/	15,150 C					
705	2^0 VLLE	/HF/perfluorooctane/	30,100 C			2		
706	2^0 PTx	/methyl t-butyl ether/n-butane/	0,100 C					
707	2^0 PTx	/ethyl t-butyl ether/2-methyl-2-propanol/	50,150 C					
708	2^0 PTx	/methyl t-butyl ether/2-methylbutane/	15,150 C					
709	2^0 PTx	/ethyl t-butyl ether/n-octane/	50,170 C					
710	2^0 PTx	/ethyl t-butyl ether/methylcyclohexane/	50,170 C					
711	2^0 PTx	/methyl t-butyl ether/n-octane/	50,150 C					
712	2^0 PTx	/acetic anhydride/2-propanol/	40 C					
713	2^0 PTx	/acetic anhydride/isopropyl acetate/	40,85 C					
714	2^0 PTx	/acetic anhydride/chloromethane/	0,80 C					

index number	type of measurement	system	T	P	x	# of points		
715	2^0 LLE	/acetic anhydride/n-heptane/	40 C			1		
716	2^0 PTx	/acetic anhydride/n-heptane/	100 C					
717	2^0 PTx	/piperazine/H_2O/	110,200 C					
718	2^0 PTx	/triethylamine/tetrahydrofuran/	50,150 C					
719	2^0 PTx	/toluene/chloroethane/	0,100 C					
720	2^0 PTx	/ethanol/chloroethane/	0,100 C					
721	2^0 PTx	/HF/1,1,1,2-tetrafluoroethane(HFC-134a)/	-20,+60 C					
722	2^0 LLE	/HF/1,1-dichloro-2,2,2-trifluoroethane(HFC-123)/	50 C			1		
723	2^0 PTx	/HF/1,1-dichloro-2,2,2-trifluoroethane(HFC-123)/	120 C					
724	2^0 PTx	/Cl_2/HCl/	-60,0 C					
725	2^0 PTx	/SO_2/HCl/	-70,0 C					
726	2^0 PTx	/Cl_2/HF/	-30,0,+50 C					
727	2^0 PTx	/Cl_2/SO_2/	-30,0,+50 C					
728	PVT	/perfluorobutane/	270-410 K	<70 bar				
729	liquid viscosity	/perfluorobutane/	0-100 C	125-300 psia		5		
730	vapor viscosity	/perfluorobutane/	10-100 C	13-200 psia		10		
731	surface tension	/perfluorobutane/	0-100 C			6		
732	therm cond (liq)	/perfluorobutane/	0-90 C			5		
733	therm cond (vap)	/perfluorobutane/	5-100 C	0.86 bar		5		
734	ΔH	/perfluorobutane/	-25-+100 C	20,5 bar		8		
735	thermodynamic tab	/perfluorobutane/						
753	2^0 PTx	/ethanethiol/propene/	-20,+50 C					
754	2^0 PTx	/nitrobenzene/methanol/	50,150 C					
755	2^0 PTx	/pyridine/ethyl acetate/	50,150 C					
756	2^0 PTx	/n-octane/t-amyl methyl ether/	50,150 C					
757	2^0 PTx	/diisopropyl ether/n-butane/	0,100 C					
758	2^0 PTx	/1,3-dichloro-2-propanol/epichlorohydrin/	50,100 C					
759	2^0 PTx	/2,3-dichloro-1-propanol/epichlorohydrin/	50,100 C					
760	2^0 PTx	/2,3-epoxy-1-propanol/epichlorohydrin/	50,75 C					
761	2^0 PTx	/3-chloro-1,2-propanediol/epichlorohydrin/	50,75 C					
762	2^0 PTx	/methanol/HCN/	0,75 C					
763	γ(inf)	/N-methyl-2-pyrrolidone/methylamine/	50,100,150 C			3		
764	2^0 LLE	/triethylene glycol/1-pentene/	0,100 C			2		
765	P*	/3-chloro-1,2-propanediol/	70-140 C					
766	2^0 PTx	/1,5-cyclooctadiene/vinylnorbornene/	115 C					
767	2^0 PTx	/vinylnorbornene/4-vinyl-2-cyclohexene/	125 C					
769	2^0 VLLE	/propane/HF/	-20,0,+20 C			3		
770	2^0 VLLE	/n-butane/HF/	0,20,40 C			3		
771	2^0 VLLE	/perfluorobutane/HF/	0,20,40 C			3		
772	2^0 VLLE	/n-hexane/HF/	20,40,60 C			3		
773	2^0 VLLE	/perfluorohexane/HF/	20,40,60 C			3		
774	2^0 PTx	/perfluorobutane/HF/	40 C					

index number	type of measurement	system	T	P	x	# of points		
789	TcPcVc	/1,1-dimethylpropyl methyl ether/						
790	TcPcVc	/1,1-dimethylethyl methyl ether/						
791	TcPcVc	/ethylbenzene/						
792	TcPcVc	/(1-methylethyl)benzene/						
793	TcPcVc	/(1-methylethyl)ethanoate/						
794	TcPcVc	/2-pentanone/						
795	TcPcVc	/2-hexanone/						
796	TcPcVc	/2-heptanone/						
797	TcPcVc	/toluene/						
798	TcPcVc	/hexafluoroethane/						
799	TcPc	/propene/						
801	2^0 PTx	/methanol/glycerine/		760 mmHg				
802	2^0 PTx	/methanol/propylene glycol/		760 mmHg				
803	gas solubility	/N_2/ in /glycerine/	175,250,400 F					
804	gas solubility	/N_2/ in /propylene glycol/	100,175,250,400 F					
805	2^0 PTx	/methanol/triethylene glycol/	30,175 C					
806	gas solubility	/N_2/ in /triethylene glycol/	20,100 C					
811	2^0 PTx	/HF/1,1,1-trifluoroethane(HFC-143a)/	-20,+30 C					
812	2^0 PTxy	/HF/1,1,1-trifluoroethane(HFC-143a)/	-20,+30 C			2		
813	2^0 PTx	/HCl/1,1,1-trifluoroethane(HFC-143a)/	-20,0 C					
817	2^0 PTx	/1,2-dichloropropane/propene/	0,45,85 C					
818	2^0 PTx	/1,2-dichloropropane/HCl/	0,25,45 C					
834	2^0 PTx	/propene/HCl /	-40,(-20 rxn) C					
840	K(rxn)	/propene/HCl/	-40,0 C					
843	2^0 PTx	/HF/H_2O/	20 C					
886	2^0 PTx	/methylal/1,2-dichloroethane/	83 C					
889	3^0 LLE	/H_2O/methyl-t-butyl ether/acetic acid/	50,70,100 C			9		
890	5^0 LLE	/H_2O/methyl-t-butyl ether/acetic acid/propionic acid/methanol/	70 C			1		
891	3^0 PTxy	/H_2O/methyl-t-butyl ether/methanol/	70,100 C			2		
892	3^0 PTxy	/H_2O/methyl-t-butyl ether/acetic acid/	70,100 C			2		
893	2^0 PTx	/H_2O/methyl-t-butyl ether/	70,100 C		<25mol% H_2O			
894	2^0 PTx	/acetic acid/methyl-t-butyl ether/	70,100 C					
895	2^0 PTxy	/acetic acid/methyl-t-butyl ether/	70,100 C		50:50wt mix	2		
919	2^0 PTx	/aminoethylpiperazine/diethylenetriamine/	125,210 C					
920	2^0 PTx	/2-butoxyethyl acetate/2-butoxyethanol/	100,170 C					
921	2^0 PTx	/2-methyl-2-propanol/2-methyl-2-butene/	30,100 C					
922	2^0 PTx	/methacrylonitrile/methanol/	25,65 C					
923	2^0 PTx	/1-chloro-1,1-difluoroethane(HCFC-142b)/HCl	-40,0 C					
924	2^0 PTx	/2-hexyloxyethanol/1,2-ethanediol/	100,180 C					
925	2^0 PTx	/n-butane/NH_3/	0,50 C					
926	2^0 VLLE	/n-butane/NH_3/	0 C			1		

index number	type of measurement	system	T	P	x	# of points		
927	2^0 PTx	/n-propionaldehyde/n-butane/	0,100 C					
928	2^0 PTx	/ε-caprolactam/H_2O/	75,150 C					
947	2^0 PTx	/Cl_2/1,1-dichloro-1-fluoroethane(HCFC-141b)/	40,70 C					
948	2^0 PTx	/SO_2/1-chloro-1,1-difluoroethane(HCFC-142b)/	40,70 C					
949	2^0 PTx	/methylisobutyl ketone/monobutyl tin trichloride/	120,150 C					
950	2^0 PTx (rxn)	/H_2O/monobutyl tin trichloride/	150 C		<30mol% H_2O			
954	TcPc	/acrylonitrile/						
955	TcPc	/γ-butyrolactone/						
956	TcPc	/cyclohexanol/						
957	TcPc	/2-(2-ethoxyethoxy)ethanol/						
958	TcPcVc	/ethylthioacetate/						
959	TcPcVc	/methoxybenzene/						
960	TcPcVc	/2-methoxyethanol/						
961	TcPc	/2-(2-methoxyethoxy)ethanol/						
962	TcPc	/2-nonanone/						
963	TcPc	/1,4-butanediol/						
964	TcPc	/2-(2-butoxyethoxy)ethyl acetate/						
965	TcPc	/1,2-ethanediamine/						
966	TcPc	/2-(2-ethoxyethoxy)ethyl acetate/						
967	TcPc	/1-methoxy-2-propanol/						
968	gas solubility	/N_2/ in /$C_8F_{16}O$?/	-46,0,+50 C	200-1000psia				
969	gas solubility	/N_2/ in /N-methylmorpholene/	-46,0,+50 C	200-1000psia				
970	2^0 VLLE	/HF/$C_8F_{16}O$?/	-20-+50 C			4		
971	2^0 VLLE	/HF/N-methylmorpholene/	20,50 C			2		
972	P*	/$C_8F_{16}O$?/	270-500 K					
973	P*	/N-methylmorpholene/	250-460 K					
987	Tc/Pc	/1-n-butoxy-2-propanol/						
988	Tc/Pc	/di-(2-aminoethyl)amine/						
989	Tc/Pc	/diethyl sulfide/						
990	Tc/Pc	/1,2-ethanediol/						
991	2^0 PTxy	/HCN/H_2O/	130 C		<200ppm HCN			
992	3^0 PTxy	/HCN/NH_3/H_2O/	130 C		<100ppm HCN			
993	2^0 PTxy	/H_2S/H_2O/	130 C		<150ppm H_2S			
994	3^0 PTxy	/H_2S/NH_3/H_2O/	130 C		<250ppm H_2S			
1001	Tc/Pc	/2-(2-aminoethylamino)ethanol/						
1002	Tc/Pc	/1-t-butoxy-2-propanol/						
1003	Tc/Pc	/ethanenitrile/						
1004	Tc/Pc	/1-phenylethanol/						
1005	Tc/Pc	/1,3-propanediol/						
1006	Tc/Pc	/1-n-propoxy-2-propanol/						
1016	P*/Tc/Pc	/toluene/						
1017	P*/Tc/Pc	/2-(2-aminoethylamino)ethanol/						

index number	type of measurement	system	T	P	x	# of points		
1018	P*/Tc/Pc	/1,3-propanediol/						
1019	P*/Tc/Pc	/2-methyl-1,3-propanediol/						
1020	P*/Tc/Pc	/2-(2-butoxyethoxy)ethyl acetate/						
1021	P*/Tc/Pc	/2-(2-ethoxyethoxy)ethyl acetate/						
1022	P*/Tc/Pc	/di-(2-aminoethyl)amine/						
1023	P*/Tc/Pc	/propylene carbonate/						
1024	P*/Tc/Pc	/1,4-butanediol/						
1025	P*/Tc/Pc	/styrene/						
1026	P*/Tc/Pc	/ethylbenzene/						
1027	P*/Tc/Pc	/phenyl acetate/						
1028	P*/Tc/Pc	/squalane/						
1156	2^0 PTx	/HF/hexafluoropropene/	20,60 C					
1157	2^0 PTx	/HF/pentafluoroethane(HFC-125)/	0,40 C					
1158	2^0 LLE	/HF/hexafluoropropene/	20,60 C					
1159	2^0 LLE	/H_2O/hexafluoropropene/	20,60 C					
1160	2^0 LLE	/H_2O/pentafluoroethane(HFC-125)/	20,60 C					
1161	3^0 VLLE	/H_2O/hexafluoropropene/HF/		95 psia		2		
1162	2^0 PTxy	/1-butanol/methyl cellosolve/	120 C			5		
1163	2^0 PTx	/benzoic acid/benzonitrile/	150,200 C					
1164	2^0 PTx	/1,2-epoxypropane/t-butyl methyl ether/	30,90 C					
1165	2^0 PTx	/methyl iodide/acetic anhydride/	40,140 C					
1166	2^0 PTx	/H_2O/DMF/	30,60 C					
1167	2^0 PTxy	/H_2O/DMF/	60 C			5		
1168	2^0 PTx	/methyl acrylate/acrylic acid/	40,80 C					
1169	2^0 PTxy	/methyl acrylate/acrylic acid/	80 C			5		
1170	2^0 PTx	/chloroform/NMP/	50,100 C					
1171	γ(inf)	/chloroform/NMP/	50,100,150 C			3		
1172	2^0 PTx	/furan/pyridine/	30,120 C					
1173	2^0 PTx	/p-xylene/NMP/	100,200 C					
1174	2^0 PTx	/1,3-butadiene/DMF/	40,80 C					
1175	2^0 PTx	/1,2-ethanediol/diethanolamine/	120,160 C					
1176	2^0 PTx	/2-(2-hexyloxyethoxy)ethanol/1,2-ethanediol/	100,180 C					
1177	2^0 PTx	/2-hexyloxyethanol/1,2-propanediol/	100,180 C					
1178	2^0 PTx	/acetone cyanohydrin/acetone/	20,75 C					
1179	2^0 PTx	/acetone cyanohydrin/HCN/	15,75 C					
1180	2^0 PTx	/1-propanethiol/n-butane/	70,110 C					
1181	gas solubility	/O_2/1,2-epoxypropane/	25,100 C	3-7 MPa		6		
1182	gas solubility	/N_2/1,2-epoxypropane/	25,100 C	3-7 MPa		6		
1183	gas solubility	/methane/dichloromethane/	-30,0,+30 C	1-4 MPa		9		
1184	ΔH	/methane/n-heptane/	-100-+500 F	50-3000 psia	0-50mol% CH_4	63		
1185	ΔH	/methane/methylcyclohexane/	-100-+500 F	50-3000 psia	0-50mol% CH_4	49		
1186	ΔH	/methane/toluene/	-100-+500 F	50-3000 psia	0-35mol% CH_4	49		

index number	type of measurement	system	T	P	x	# of points		
1207	2^0 PTx	/acetic acid/propionic acid/	118,141 C					
1208	2^0 PTxy	/acetic acid/propionic acid/	118,141 C			5		
1221	3^0 PTxy	/NH_3/H_2O/LiBr/$LiNO_3$/	0-250 C	0-1700 psia		36		
1222	ρ(liq)	/NH_3/H_2O/LiBr/$LiNO_3$/	0-250 C	0-4000 psia		161		