

VAPOUR PRESSURE: COMPARISON OF TEST RESULTS AND PREDICTIONS

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference (pred./meas.) [+ log units]	Result
4	5,200 Pa 39 torr	$<10^3$	-4.6	disagree
6	nd	$<10^{-6}$ [10^{-6}]	-	-
16	<7 Pa (25°C, 65°C) 5.25×10^{-2} torr	$<10^5$	-3.7	disagree
17	7 Pa (24°C, 65.5°C) $5.25 \cdot 10^{-2}$ torr	$<10^4$	-2.7	disagree
21	<0.1 Pa ($<170^\circ\text{C}$) [10^{-6} torr at rt]	$<10^{-6}$ [10^{-6}]	0	agree
23	<0.01 Pa 7.5×10^{-5} torr	$<10^{-5}$	-0.8	agree
24	10^{-4} Pa [10^{-6} torr]	$<10^{-6}$ [10^{-6}]	0	agree
26	10^{-4} Pa [10^{-6} torr]	$<10^{-6}$ [10^{-6}]	0	agree
37	3.27 Pa 0.0245 torr	0.0245	0	agree
44	133.2 Pa at 70°C 10^{-1} torr at rt	0.11	0.04	agree
47	$<10^3$ Pa 7.5×10^{-6} torr	$<10^4$ [10^{-6}]	-0.8	agree
49	68 Pa 0.51 torr	$<1.4 \times 10^{-4}$	-3.5	disagree
50	nd	$<10^3$ [10^{-6}]	-	-

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
53	6.7×10^{-5} Pa [10^{-6} torr]	$\leq 10^{-6}$ [10^{-6}]	0	agree
54	2×10^{-7} Pa [10^{-6} torr]	3.3×10^{-3}	+3.5	disagree
61	< 10 Pa 7.5×10^{-2} torr	< 10^{-7} [10^{-6}]	-4.8	disagree
68	nd	< 10^{-8} [10^{-6}]	-	-
69	nd	10^{-7} [10^{-6}]	-	-
70	-	< 10^{-6} [10^{-6}]	-	-
76	4.8×10^{-5} Pa [10^{-6} torr]	10^{-6} [10^{-6}]	0	agree
78	nd	< 10^{-8} [10^{-6}]	-	-
79	nd	< 10^{-7} [10^{-6}]	-	-
87	6.04×10^{-4} kPa 4.53×10^{-3} torr	2.34×10^{-3}	-0.3	agree
96	nd	< 10^{-6} [10^{-6}]	-	-
99	0.026 kPa 0.195 torr	0.0054	-1.5	disagree
101	nd	< 10^{-8} [10^{-6}]	-	-

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
102	2.10^{-13} kPa [10^{-6} torr]	10^{-5}	+1.0	agree
106	0.024 Pa 1.8×10^{-4} torr	2.5×10^{-4} torr	+0.1	agree
107	1.49×10^{-4} kPa 1.12×10^{-3} torr	<0.01	+0.9	agree
108	18×10^{-2} Pa 1.35×10^{-2} torr	≤ 0.023	+0.2	agree
110	1.03×10^{-5} Pa [10^{-6} torr]	10^{-5}	+1.0	agree
113	2.6×10^{-5} Pa [10^{-6} torr]	< 10^{-6} [10^{-6}]	0	agree
118	7.1×10^{-6} kPa 5.34×10^{-5} torr	10^{-5}	-0.7	agree
124	3.3×10^{-4} Pa 2.47×10^{-6} torr	10^{-8} [10^{-6}]	-0.4	agree
128	nd	< 10^{-6} [10^{-6}]	-	-
133	9.6×10^{-7} kPa [10^{-6} torr]	< 10^{-6} [10^{-6}]	0	agree
144	< 2.6×10^{-5} Pa [10^{-6} torr]	< 10^{-7} [10^{-6}]	0	agree
148	nd	< 10^{-7} [10^{-6}]	-	-
151	2.47 Pa (extrapol.) 1.85×10^{-2} torr	< 10^{-7} [10^{-6}]	-4.3	disagree

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
155	2.4×10^{-8} kPa [10^{-6} torr]	$< 10^{-6}$ [10^{-6}]	0	agree
156	0.07 Pa 5.25×10^{-4} torr	0.054	+2.0	disagree
164	220 Pa 1.65 torr	$< 10^{-5}$	-5.2	disagree
170	1.88×10^{-6} kPa 1.41×10^{-5} torr	$< 10^{-5}$	-0.1	agree
173	2.1 Pa 1.57×10^{-2} torr	$\leq 10^{-6}$ [10^{-6}]	-4.2	disagree
176	9.6×10^{-11} Pa [10^{-6} torr]	$< 10^{-12}$ [10^{-6}]	0	agree
182	747 Pa (extrapol.) 5.6 torr	10^{-6}	-6.7	disagree
186	8.9×10^{-10} kPa [10^{-6} torr]	10^{-8} [10^{-6}]	0	agree
192	0.0085 kPa 6.37×10^{-2} torr	0.5	+0.9	agree
194	nd	$< 10^{-5}$	-	
196	nd	$< 10^{-8}$	-	
197	8.82×10^{-5} Pa [10^{-6} torr]	$< 10^{-6}$ [10^{-6}]	0	agree
200	4 Pa 3.0×10^{-2} torr	3×10^{-4}	-2.0	disagree

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
204	1.1×10^{-7} Pa [10^{-6} torr]	10^{-7} [10^{-6}]	0	agree
214	0.6×10^{-4} Pa [10^{-6} torr]	$< 10^{-6}$ [10^{-6}]	0	agree
216	1×10^{-8} kPa [10^{-6} torr]	4.7×10^{-8} [10^{-6}]	0	agree
217	nd	$< 10^{-7}$	-	-
218	10.2×10^{-3} Pa 7.65×10^{-5} torr	< 0.01	+2.1	disagree
219	0.0067 mbar 5.02×10^{-3} torr	0.008	+0.2	agree
222	1.34 Pa 1×10^{-2} torr	0.016	+0.2	agree
224	nd	$< 10^{-6}$	-	-
235	2.1×10^{-3} Pa 1.57×10^{-5} torr	$\leq 10^{-6}$ [10^{-6}]	-1.2	disagree
237	0.31 kPa 2.32 torr	10^{-6}	0	agree
239	2.54×10^{-15} Pa [10^{-6}]	10^{-6}	0	agree
240	nd	$< 10^{-6}$ [10^{-6}]	-	-
241	2.0×10^{-4} 1.6×10^{-6} torr	10^{-5}	-0.2	agree

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
242	0.90 Pa 6.6×10^{-3} torr	10^{-5}	-2.8	disagree
253	2×10^{-5} Pa [10^{-6}]	$\leq 1.5 \times 10^{-7}$ [10^{-6}]	0	agree
256	1.0 Pa 7.5×10^{-3} torr	10^{-4}	-1.9	disagree
263	nd	$< 10^{-8}$ [10^{-6}]	-	-
265	nd	$< 10^{-5}$	-	-
267	nd	$< 10^{-8}$ [10^{-6}]	-	-
268	4.9 Pa 3.67×10^{-2} torr	1.3×10^{-3}	-1.4	disagree
269	2×10^{-3} torr	2×10^{-3}	0	agree
270	1.3×10^{-5} Pa [10^{-6} torr]	5×10^{-8} [10^{-6}]	0	agree
271	< 0.01 kPa 7.5×10^{-2} torr	$< 10^{-7}$ [10^{-6}]	-4.8	disagree
275	5.4×10^{-9} Pa [10^{-6} torr]	$< 10^{-7}$ [10^{-6}]	0	agree
278	6.06×10^{-3} Pa 4.54×10^{-5} torr	4.1×10^{-6}	-1.0	agree
281	4.3×10^{-2} Pa 3.22×10^{-4} torr	7.5×10^{-4}	+0.3	agree

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
283/429	4.5 Pa 3.37×10^{-2} torr	0.3	+0.9	agree
286	6.4 Pa (extrapol.) 4.8×10^{-2} torr	$<10^{-3}$ [10^{-6}]	-4.7	disagree
287	0.9 Pa (extrapol.) 6.7×10^{-3} torr	$<10^{-7}$ [10^{-6}]	-3.8	disagree
289	$<4.9 \times 10^{-8}$ Pa [10^{-6} torr]	$<10^{-9}$ [10^{-6}]	0	agree
291	nd	$<10^{-7}$ [10^{-6}]	-	-
292	1.55 Pa 1.16×10^{-2} torr	2.9×10^{-7} [10^{-6}]	-4.0	disagree
300	1.7×10^{-2} (1.27×10^{-4} torr)	2.5×10^{-4}	+0.3	agree
307	nd	$<10^{-3}$	-	-
309	8×10^{-4} Pa 6×10^{-6} torr	$<10^{-6}$ [10^{-6}]	-0.7	agree
312	96.5 Pa 0.724 torr	$<10^{-7}$ [10^{-6}]	-5.8	disagree
318	nd	$<10^{-8}$ [10^{-6}]	-	-
320	nd	$<10^{-8}$ [10^{-6}]	-	-
321	2.9×10^{-7} Pa [10^{-6} torr]	$<10^{-5}$	+1.0	agree

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
330	10^{-6} Pa [10^{-6} torr]	$<10^{-6}$ [10^{-6}]	0	agree
335	1.5 Pa 1.13×10^{-2} torr	$<10^{-8}$ [10^{-6}]	-4.0	disagree
336	nd	$<10^{-8}$ [10^{-6}]	-	-
337	3.67×10^{-4} Pa 2.75×10^{-6} torr	4×10^{-4}	+2.1	disagree
340	nd	$<10^{-3}$	-	-
341	nd	$<10^{-8}$ [10^{-6}]	-	-
342	7.3 Pa [5.5 torr]	0.1	-1.7	disagree
344	nd	10^{-4}	-	-
348	≤ 0.2 Pa 1.5×10^{-3} torr	10^{-9} [10^{-6}]	-3.2	disagree
349	nd	$<10^{-8}$ [10^{-6}]	-	-
354	2.2×10^{-4} Pa 1.65×10^{-6} torr	$<10^{-5}$	+0.8	agree
355	3.02×10^{-6} Pa 2.2×10^{-6} torr	$<10^{-6}$ [10^{-6}]	-0.3	agree
360	1.8×10^{-4} Pa 1.35×10^{-6} torr	$<10^{-7}$ [10^{-6}]	-0.1	agree

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
361	$< 10^{-7}$ [10^{-6} torr]	10^{-7} [10^{-6}]	0	agree
362	1.7×10^{-4} at 84°C [10^{-6} torr/rt]	$< 10^{-6}$ [10^{-6}]	0	agree
364	nd	$\leq 10^{-6}$	-	-
366	10^{-8} at 100°C [10^{-6} torr]	$< 10^{-6}$ [10^{-6}]	0	agree
368	0.075 kPa 0.56 torr	1.5	+0.4	agree
369	0.01 kPa 7.5×10^{-2} torr	$< 10^{-6}$ [10^{-6}]	-4.9	agree
370	153.3 [1.15 torr]	4.1	+0.6	agree
373	558 Pa 4.18 torr	2	-0.3	agree
376	65 Pa 0.487 torr	$< 10^{-8}$ [10^{-6}]	-5.7	disagree
379	1140 Pa 8.55 torr	8.5	0	agree
381	10^{-8} [10^{-6} torr]	$< 10^{-7}$ [10^{-6}]	0	agree
383	5×10^{-15} Pa [10^{-6} torr]	$< 10^{-6}$ [10^{-6}]	0	agree
386	1.0×10^{-6} Pa / 9.7×10^{-7} Pa [10^{-6} torr]	$< 10^{-7}$ [10^{-6}]	0	agree

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
393	$<10^{-8}$ kPa [10^{-6}]	$<10^{-8}$ [10^{-6}]	0	agree
394	2.6×10^{-5} Pa [10^{-6} torr]	$<10^{-6}$ [10^{-6}]	0	agree
396	33 Pa 0.247 torr	$<10^{-8}$ [10^{-6}]	-5.4	disagree
398	6.8 Pa (40°C) 0.02 torr (rt)	0.04	+0.3	agree
401	<10 Pa 7.5×10^{-2} torr	$<10^{-10}$ [10^{-6}]	-4.8	disagree
406	$<2.5 \times 10^{-2}$ 1.87×10^{-4} torr	$<10^{-8}$ [10^{-6}]	-2.3	disagree
411	$<10^{-8}$ kPa [10^{-6} torr]	$<10^{-6}$ [10^{-6}]	0	agree
413	2.3×10^{-4} Pa 1.72×10^{-6} torr	$<10^{-6}$ [10^{-6}]	-0.2	agree
414	5.21×10^{-4} Pa 3.91×10^{-6} torr	[10^{-6}]	-0.6	agree
415	0.04 Pa 3×10^{-6} torr	[10^{-6}]	-2.5	disagree
416	<0.1 Pa 7.5×10^{-4} torr	$<10^{-6}$ [10^{-6}]	-2.8	disagree
417	2.5×10^{-2} Pa 1.87×10^{-4} torr	$<10^{-7}$ [10^{-6}]	-3.2	disagree
420	9.01×10^{-6} Pa [10^{-6} torr]	3.4×10^{-4}	+1.7	disagree

Chem. No.	MPD vapour pressure	SAR vapour pressure [torr]	Difference [\pm log units]	Result
421	1 Pa 7.5 x 10 ⁻³ torr	<10 ⁻⁶ [10 ⁻⁶]	-3.8	disagree
425	<10 Pa <0.075 torr	0.03	-0.4	agree
431	$\leq 1.6 \times 10^{-8}$ Pa [10 ⁻⁶ torr]	<10 ⁻⁶ [10 ⁻⁶]	0	agree
436	3.1 x 10 ⁻² Pa 2.33 x 10 ⁻⁴ torr	<10 ⁻⁷ [10 ⁻⁶]	-2.3	disagree
437	9600 Pa 72 torr	<10 ⁻⁴	-5.8	disagree
439	$\leq 7.1 \times 10^{-16}$ Pa [10 ⁻⁶ torr]	<10 ⁻⁸ [10 ⁻⁶]	0	agree
441	nd	<10 ⁻⁶	-	-
442	3.2 x 10 ⁻⁸ Pa [10 ⁻⁶ torr]	<10 ⁻³	+3.0	disagree
443	1.08 kPa 8.1 torr	11.4	+0.1	agree
444	2.3 x 10 ⁻³ Pa 1.72 x 10 ⁻⁵ torr	0.07	+3.6	disagree
445	nd	<10 ⁻⁶ [10 ⁻⁶]	-	-
446	2.4 x 10 ⁻⁷ Pa [10 ⁻⁶ torr]	<10 ⁻⁷ [10 ⁻⁶]	0	agree
451	0.05 Pa 3.75 x 10 ⁻⁴ torr	≤ 0.01	+1.4	disagree
472	350 Pa (extrapol.) 2.63 torr	3 x 10 ⁻⁴	-3.9	disagree