

**Table S1: Estimated sub-cooled liquid vapour pressures at 298 K. N\_Vp (Nannoolal vapour pressure), MY\_Vp (Myrdal and Yalkowsky vapour pressure, SIMPOL (SIMPOL vapour pressure), N\_Tb (Nannoolal boiling point), SB\_Tb (Stein and Brown boiling point), Literature (4-dimethylaminobenzaldehyde from Daubert and Danner (Daubert and Danner, 1989), 3-ethoxy-4-hydroxybenzaldehyde, vanillin, and 4-hydroxybenzaldehyde from Yaws (Yaws, 1994). Error bars are +/- 1 standard deviation. This table contains the corresponding information used in Fig.**

Compound	N_Vp & N_Tb (Pa)	N_Vp & SB_Tb (Pa)	MY_Vp & N_Tb (Pa)	MY_Vp & SB_Tb (Pa)	SIMPOL (Pa)	Literature (Pa)	Experimental (Pa)
methyl 4- formylbenzoate	8.82E-01	1.28E+00	1.73E+00	2.47E+00	1.11E+01	nan	1.07E+00
terephthalaldehyde	6.67E-01	2.94E+00	1.22E+00	5.09E+00	1.41E+00	nan	9.43E-01
o-vanillin	2.35E-01	4.29E-01	2.85E-01	5.15E-01	2.20E-02	nan	6.44E-01
2,4-dimethoxy-3- methyl benzaldehyde	2.69E-01	4.73E-01	6.85E-01	1.16E+00	3.95E-02	nan	2.38E-01
2,3,4-trimethoxy benzaldehyde	5.82E-02	1.34E-01	2.05E-01	4.41E-01	3.84E-03	nan	1.73E-01
4-dimethylamino benzaldehyde	6.15E+00	9.38E+00	5.22E+00	8.11E+00	2.90E-01	4.91E-01	1.57E-01
3,4-dimethoxy benzaldehyde	7.82E-01	1.43E+00	1.54E+00	2.76E+00	1.05E-01	nan	1.38E-01
3-ethoxy-4-hydroxy benzaldehyde	1.64E-01	1.94E-01	1.76E-01	2.09E-01	8.29E-03	1.39E-03	1.31E-01
3-ethoxy-4-methoxy benzaldehyde	5.36E-01	6.52E-01	8.69E-01	1.05E+00	3.95E-02	nan	1.14E-01
3-hydroxy benzaldehyde	3.24E+00	4.29E+00	2.32E+00	3.11E+00	6.01E-01	nan	9.21E-02
2,5-dihydroxy benzaldehyde	3.53E-02	8.87E-02	5.83E-02	1.40E-01	4.61E-03	nan	7.02E-02
vanillin	2.35E-01	4.29E-01	2.85E-01	5.15E-01	2.20E-02	1.57E-02	6.73E-02

4-diethylamino benzaldehyde	2.85E+00	2.12E+00	1.59E+00	1.15E+00	4.11E-02	nan	6.49E-02
2,6-dimethoxy benzaldehyde	7.82E-01	1.43E+00	1.54E+00	2.76E+00	1.05E-01	nan	4.50E-02
4-hydroxy benzaldehyde	2.70E+00	4.26E+00	1.94E+00	3.11E+00	6.01E-01	1.51E-02	2.78E-02
isovanillin	2.35E-01	4.29E-01	2.85E-01	5.15E-01	2.20E-02	nan	2.36E-02
2-carboxy benzaldehyde	1.50E-02	2.09E-02	6.83E-02	9.16E-02	9.11E-03	nan	4.96E-03

## References

Daubert, T. E. and Danner, R. P.: Physical and thermodynamic properties of pure chemicals: data compilation, Hemisphere Pub. Corp., New York., 1989.

Yaws, C. L.: Handbook of vapor pressure, Gulf Pub. Co., Houston., 1994.