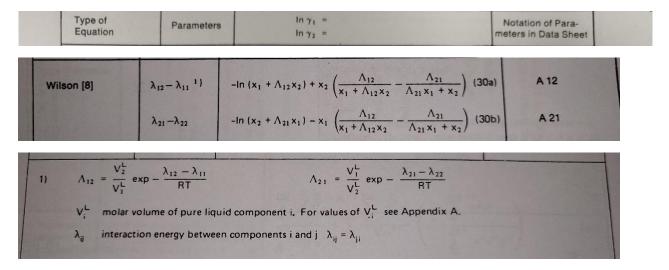
SYSTEM -

1Butanol & 1,2 Propanediol

Activity Coefficient Model -

Wilson



Parameters are given in cal/mol with the gas.

2. Antoine Vapor Pressure Equation

The Antoine vapor pressure equation is used in the following form:

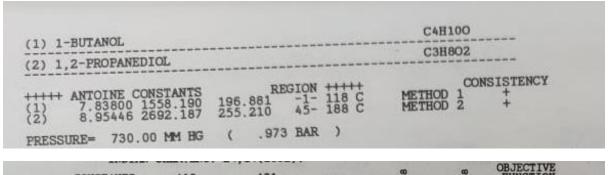
$$\log[p_i^0] = A - \frac{B}{t+C} \tag{70}$$

with [p_i⁰] vapor pressure of pure component i in mm Hg
t temperature in degrees Celsius (° C)

The Antoine constants A, B, and C are given with respective temperature regions (in ° C).

Note- Here it is log (Base 10).

Value of Constants



CONST	ANTS:	A12	A21	α12	71	72	FUNCTION	plus.	
VAN LAAR WILSON	-290. 764.	4129 6946 6865	848.3203 -226.3497	.2993	1.51	2.03	.0384	GGG	

Please take data corresponding to Wilson

There is no alpha12 for Wilson.

T-X-Y Data

T DEG C	IMENTAL X1	DATA Y1	I
180.30 175.65 168.90 163.80 161.50 154.10 151.35 147.35 145.25 140.10 136.80 134.05 130.35 128.35 128.35 128.30 121.30 121.30	.0185 .0335 .0595 .0925 .1035 .1500 .1720 .2090 .2350 .3015 .3520 .4220 .5090 .5705 .6390 .7330 .8045 .9055	7525	

Take the molar volume from NIST Database. If not available there, please contact the TA's (Sandra and Krishna).

All data taken from Dechema Chemistry Data Series.