niacin mw 123gm/mole
.9528 mole = 117 gm/dm-3 = 117 gm/1000mL
= 11.7 gm/100 mL = 11.7%

TABLE 3
Solubility of nicotinic acid and isonicotinic acid in organic solvents and water, at $T = 298.2$ K.

= 77F

Solvent	Solubility/mol·dm^{-3}	Ref.
	Nicotinic acid	
Butan-1-ol	0.03325	This work
Pentan-1-ol	0.03028	This work
Hexan-1-ol	0.02895	This work
Butan-2-ol	0.03899	This work
Ethanol	0.0631	[6]
Diethyl ether	0.00764	[6]
Propanone	0.0194	[6]
Acetonitrile	0.00384	[6]
DMSO	0.9528	[6]
Water	0.138	[6]
	Isonicotinic acid	
Pentan-1-ol	0.00483	This work
Butan-2-ol	0.00616	This work
Propanone	0.00483	This work
Tetrahydrofuran	0.0144	This work
Methanol	0.0152	[7]
Ethanol	0.00977	[7]
Propan-1-ol	0.0103	[7]
Propan-2-ol	0.00709	[7]
Water	0.0467	[8]

neutral to zwitterion equilibr
1.22 lg units. This corresponds
at the isoelectric point, in good
tained by Nagy and Takács-No

Although we show in table
values for nicotinic acid, a mo
ment is provided by the calcula
are derived from the given calcu
value of −2.078 for lg C_w, and
the average error between val
solubility is 0.004, the average
dard deviation is 0.059 lg units
of predicting further solubility

We used exactly the same p
acid, taking E and V as the same
the solubility data, there is als
tion of neutral isonicotinic aci
system [12]. As before, lg C_w w
to be −3.120 lg units. The resu
and the calculated and observe
responding lg C values are in t
observed values, the average e
error is 0.034 and the standard
further predictions of lg C can