PureChem™ Services

Methanol Content & Freeze Point

Littlehawk Enterprises Ltd.

Date 16-Dec-2016

Project # 1204089

Field Arcola

Battery N/A

Location Tk1 & Tk2

SUMMARY OF RESULTS

The methanol content & freeze point of the samples provided were determined to be as follows:

- **Tk1:** 32.3% Methanol, Freeze Point = -28.0˚C
- **Tk2:** 32.0% Methanol, Freeze Point = -27.7˚C

Table 1

Location	Measured Specific Gravity	Specific Gravity @ 19˚C	Methanol (%)	Freeze Point (˚C)
Tk1	0.9419 @ 16.6˚C	0.9414	32.3	-28.0
Tk2	0.9425 @ 15.8˚C	0.9419	32.0	-27.7

DISCUSSION OF RESULTS

Samples from the above mentioned locations were provided by Littlehawk Enterprises Ltd. The samples were assumed to be a mixture of methanol and fresh water. The specific gravity was measured as indicated in Table 1 above. As our standard curve is set up at 19°C, the measured specific gravities were standardized to 19°C to determine the % methanol content of the samples, which was then entered into a standard curve of freezing points of methanol/water solutions to determine the freezing point of the samples.

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