

# Note: 000070

#### **Overview**

Number	000070
Description	ISO 6578 - LNG: Intermediate Parameter Rounding – Additional Option
Version	2 from 13.07.2017
Status	Released to Customer
Language	EN
0 0	
Responsible	Markus Seng
Responsible Product	
·	Markus Seng

#### **Symptom**

ISO 6578 defines the density calculation for LNG. With this note, an additional rounding option for the molar volumes  $V_i$  for such calculations is delivered. The current rounding options had been delivered as an advanced development with note 000064 and are contained in BCS 3.0 already.

#### Cause

Ambiguity in ISO 6578 calculation example.

#### **Solution**

Advanced development: LNG conversion groups can now be configured with four rounding options:

# QuantityWare

Change View "QCI: L				roups": Details	
😚 New Entries 🗈 🗟 🔊	a 🗈 🖽				
Dialog Structure	Base conversion units of measure Heating value (volume) UoM [XJX] Base conversion UoM - volume			Ŷ	
<ul> <li>SAP QCI &amp; MQCI Moi</li> <li>Link Reading Group t</li> </ul>	Heating value (molar) UoM		4JL	Base conversion UoM - energy	
<ul> <li>Assign Additional Uni</li> <li>Assign Set ID for Physical Set ID for</li></ul>	Heating value (mass)		1JK KGV	Base conversion UoM - mass Base conversion UoM - LNG vol.	
Asign Sec 10 for Fit	Density (absolute) UoM Wobbe index UoM		4JM	Base molar mass (weight) UoM	
	Compression factor cal	culation standard:	units o	of measure	
	Standard Heating value UoM			Standard temperature UoM	
	Standard Density Uc	М		Standard pressure UoM	
	LNG settings				1
	LNG base temperate	ure -161	.00	LNG base density UoM	
:	LNG base temp. Uol	м	CEL	LNG base heat.val.(liq.) UoM	
	Vapor correction	Apply simplified	equati	on ISO 6578, UI parameter required	
	Vapor data Use ISO 6578 me		hethane molweight for vapor calculations, Z = 1		. 1
	Vap.Liq.to Liq.	Convert liquid L	NG voli	umes via liquid densities	
	LNG comp. data	Use ISO 6578:1	991 A	nnex B & C data & calculation model	
	Round k1 & k2	Round k1 & k2	as defi	ned in ISO 6578 examples	
	Round V c Do not round V_c			- 1	
	Round V i			und x_i × V_i & sum of x_i × V_i is defined in ISO 6578 examples	
	Rounding settings for r			× V_i & sum of x_i × V_i	
	Round base source	-9		< V_i. Round sum of x_i × V_i (ISO)	
	Round intermedia	Round V_i . Do	not ro	und x_i × V_i & sum of x_i × V_i	
	Round base targe	t			
	Round quantities	and parameters w	/ithin n	nodel using statistician's rounding	~
	$\rightarrow$			<	>

## **Transport Reference**

SAP Release	Transport	File Name	Notes
ECC600	QOIK900279	NOTE-00070-600.SAR	

## Validity

SAP Release	From SP	To SP	In SP Shipment
ECC600	BCS 3.0	BCS 3.0 CSP01	BCS 3.0 CSP01
S/4 HANA	0	0	BCS 3.0