

Reference: GORGN22Y
Crude: Gorgon



Crude Summary Report

General Information		Molecules (%wt on crude)				Whole Crude Properties			
Reference:	GORGN22Y	methane + ethane	0.00	Density @ 15°C (g/cc)	0.7649				
Name:	Gorgon	propane	0.00	API Gravity	53.4				
Origin:	Carnarvon Basin	isobutane	0.07	Total Sulfur (% wt)	0.02				
Assay Date:	12/22/2022	n-butane	0.44	Pour Point (°C)	-81				
Comments:		isopentane	5.32	Viscosity @ 20°C (cSt)	0.9				
		n-pentane	4.93	Viscosity @ 40°C (cSt)	0.7				
		cyclopentane	0.51	Nickel (ppm)	0.1				
		C6 paraffins	9.23	Vanadium (ppm)	0.2				
		C6 naphthenes	5.96	Total Nitrogen (ppm)	22				
		benzene	0.87	Total Acid Number (mgKOH/g)	0.01				
		C7 paraffins	6.02	Mercaptan Sulfur (ppm)	7.0				
		C7 naphthenes	10.33	Hydrogen Sulfide (ppm)	0.0				
		toluene	3.05	Reid Vapor Pressure (kPa)	38.5				

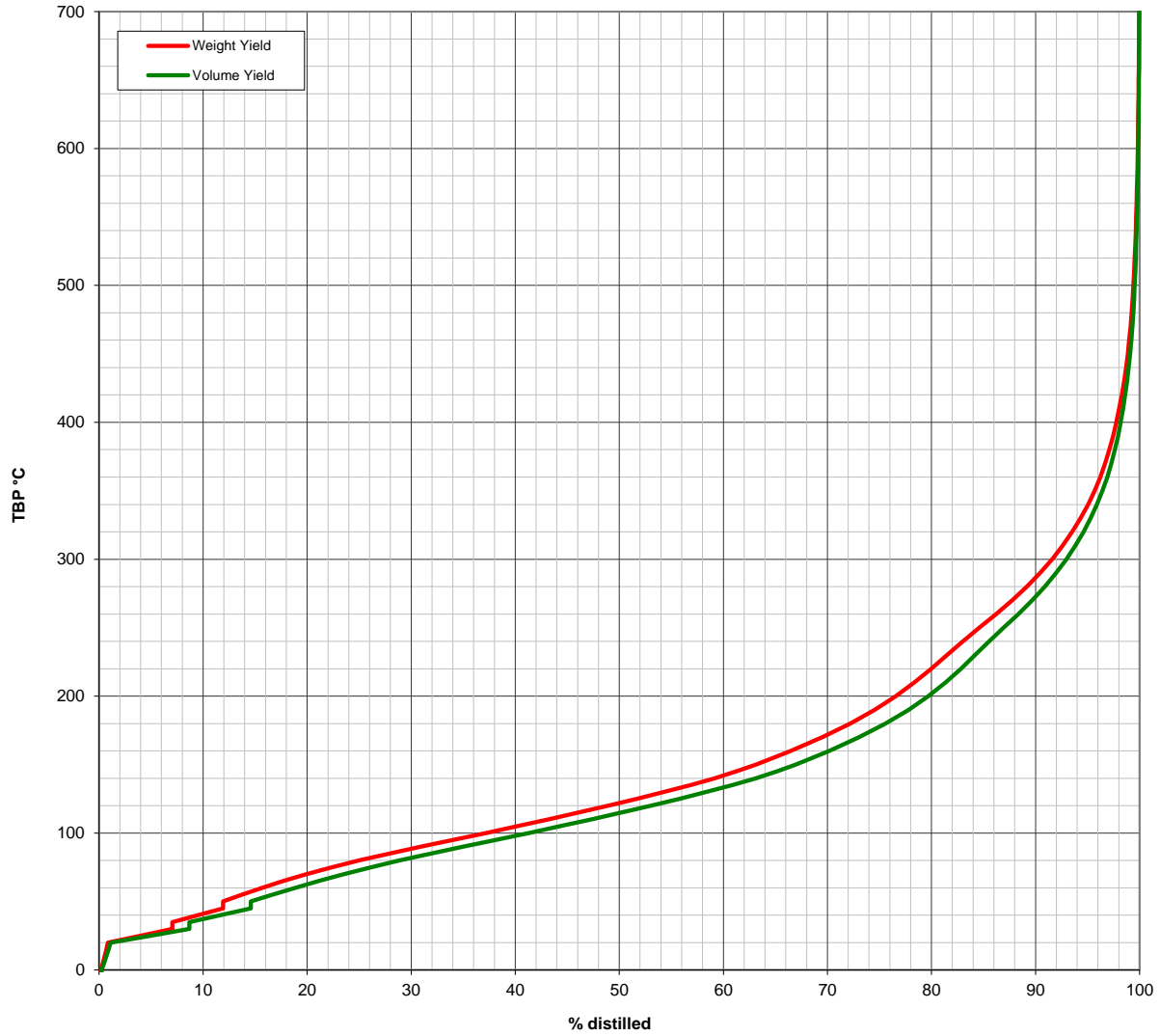
Cut Data	IBP	Atmospheric Cuts										Vacuum Cuts			
		C5	65	100	150	200	250	300	350	370	370	450	500	550	
Start (°C)	FBP	65	100	150	200	250	300	350	370	FBP	450	500	550	FBP	
Yield (% wt)		17.0	19.4	26.0	13.5	8.0	7.0	4.1	1.0	3.3	2.2	0.5	0.3	0.3	
Yield (% vol)		20.2	20.1	25.7	12.7	7.2	6.0	3.5	0.9	2.7	1.8	0.4	0.2	0.3	
Cumulative Yield (% wt)		0.7	17.7	37.2	63.1	76.6	84.6	91.6	95.7	96.7	96.7	98.9	99.4	99.7	
Volume Average B.P. (°C)	137	39.9	83	123	172	224	273	322	360	444	403	472	522	619	
Density @ 15°C (g/cc)	0.7649	0.6436	0.7374	0.7720	0.8059	0.8486	0.8855	0.8997	0.9105	0.9314	0.9201	0.9381	0.9531	0.9821	
API Gravity	53.4	88.3	60.3	51.7	44.0	35.2	28.2	25.7	23.8	20.3	22.2	19.3	16.9	12.5	
UOPK	11.81			11.57	11.52	11.35	11.23	11.37	11.46	11.68	11.60	11.75	11.82	11.92	
Molecular Weight (g/mol)				108	134	165	198	241	278	377	327	428	538	862	
Total Sulfur (% wt)	0.02	0.004	0.002	0.003	0.007	0.010	0.009	0.018	0.262	0.218	0.281	0.339	0.458		
Mercaptan Sulfur (ppm)	7.0	0.1	0.3	1.0	4.0	3.8	1.8								
Total Nitrogen (ppm)	22				4	10	63	192	505	363	680	923	817		
Basic Nitrogen (ppm)	7				1	4	23	49	164	100	235	364	307		
Total Acid Number (mgKOH/g)	0.01	0.00	0.00	0.00	0.01	0.01	0.05	0.09	0.09	0.08	0.06	0.05	0.03		
Viscosity @ 20°C (cSt)	0.91				1.37										
Viscosity @ 40°C (cSt)	0.74				1.04	1.73	3.27	7.19	13.9						
Viscosity @ 50°C (cSt)	0.67					1.48	2.68	5.48	9.97	53.1	21.7	102	466		
Viscosity @ 60°C (cSt)										33.6	15.0	60.2	234		
Viscosity @ 100°C (cSt)										8.89	5.08	13.2	32.9	440	
Viscosity @ 130°C (cSt)														93.0	
Viscosity @ 150°C (cSt)														43.0	
RON (Clear)		78.8	52.2	73.3	47.9										
MON (Clear)		76.5	66.7	68.2	45.8										
Paraffins (% wt)	41.8	96.9	49.8	21.1	36.2										
Naphthenes (%wt)	38.7	3.0	45.5	55.9	41.1										
Aromatics (% wt)	19.6	0.0	4.7	23.1	22.7										
Pour Point (°C)	-81					-56	-37	-10	3	18	12	23	30	48	
Cloud Point (°C)						-55	-36	-9							
Freeze Point (°C)						-61	-47	-29							
Smoke Point (mm)						21	17	13							
Cetane Index (D4737A)						30	33	35	48						
Naphthalenes (% vol)						0.0	6.6	9.5	10.7						
Aniline Point (°C)				47.3	48.3	50.7	53.5	65.6	70.8		71.2	71.7	72.8		
Hydrogen (% wt)	14.1	16.5	15.0	13.5	13.8	12.4	12.7	12.3	11.8		12.1	12.2	12.2		
Total Wax (% wt)	2.1									7.4	8.9	6.8	4.0	0.7	
C7 Asphaltenes (% wt)	0.0									0.5	0.0	0.0	5.5		
Micro Carbon Residue (% wt)	0.0									1.0	0.6	2.4	7.4		
Vanadium (ppm)	0.2									5.9	0.0	0.0	60.0		
Nickel (ppm)	0.1									1.5	0.0	0.0	15.5		
Iron (ppm)	0.1									1.5	0.0	0.0	15.8		
Sodium (ppm)	0.0														
Mercury (ppb)	50.0														
Arsenic (ppb)	5														

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Yield Distribution

Cumulative Yield



Cumulative Volume % Distilled at 10 Degree C (TBP) Intervals

	0	10	20	30	40	50	60	70	80	90
0				8.7	11.7	14.6	18.9	23.6	28.9	35.0
100	41.3	47.3	53.1	58.4	63.1	67.0	70.2	73.1	75.6	77.8
200	79.7	81.4	82.8	84.2	85.5	86.9	88.4	89.7	90.9	92.0
300	93.0	93.8	94.6	95.3	95.9	96.4	96.9	97.3	97.6	97.9
400	98.2	98.4	98.6	98.8	99.0	99.1	99.2	99.3	99.4	99.5
500	99.5	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8