



Hiran Smart Trading Co.
تجارت هوشمند هیراد

GAS CRACKING PLANT (OL)

C2 ⁺ -Feed		
Ethane	52.97	% wt
Methane	0.3	% wt
Nitrogen	Trace	% wt
Propane	29.2	
i-Butane	4.22	% wt
n-Butane	7.92	% wt
i-Pentane	1.71	% wt
n-Pentane	1.27	% wt
Hexan	0.43	% wt
CO ₂	1.97	% wt
COS	25	ppm wt
H ₂ S	15	ppm wt

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Ethylene Product

Component	Value	Unit
Ethylene	99.95%	V min
Methane+Ethane	500 ppm	V max
Hydrogen	5 ppm	V max
Total C3 & Higher	10 ppm	V max
Acetylene	1 ppm	V max
Carbon Monoxide	0.03 ppm	V max
Carbon Dioxide	0.5 ppm	V max
Oxygen	0.1 ppm	V max
Total combined sulphur	1 ppm	V max
Water	0.1 ppm	V max
Methanol	0.5 ppm	V max
Total combined nitrogen	0.2 ppm	V max
Oxygenated compounds	0.5 ppm	V max
COS	0.02 ppm	V max
Mercaptans	0.3 ppm	V max

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Propylene Product		
Component	Value	Unit
Propylene	99.80%	V min
Propane and heavier	Balance	V max
Methane	10 ppm	V max
Ethane	200 ppm	V max
Hydrogen	5 ppm	V max
Ethylene	5 ppm	V max
Acetylene	1 ppm	V max
C4HC	1 ppm	V max
Methyl acetylene	1 ppm	V max
Propadiene	1 ppm	V max
Carbon Monoxide	0.02 ppm	V max
Carbon Dioxide	2 ppm	V max
Oxygen	2 ppm	V max
Total sulphur	2 ppm	V max
Water	5 ppm	V max
Methanol+Ketones	5 ppm	V max

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Hydrogen Product

Component	Value	Unit
Hydrogen	99.99 %	V min
CO+CO2	1 ppm	V max
CH4+N2	0.01 %	V max
C2H4	1 ppm	V max

Methane Product

Component	Value	Unit
Hydrogen	Max.7.0	Mol-%
Ethane	Max.1000	Mol-ppm
Methane	Min.93.0	Mol-%
CO	Max. 1000	Mol-ppm
Acetylene	Max.1	Mol-ppm
Sulfur	Max.5	Mol-ppm
C3+	nil	
Cl	nil	

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C4 plus Product

Component	Value	Unit
M-Mercaptane	51	Wt-ppm
Ethane	131	Wt-ppm
Propane	18.0	Wt-%
i-Butane	17.82	Wt-%
n-Butane	41.72	Wt-%
Pentane	19.43	Wt-%
Hexane	0.03	Wt-%

C5 plus Product

Component	Value	Unit
C4 minus components	Mx 350	Wt-ppm
Benzene content	49.24	Wt-%
Toluene	14.68	Wt-%
Xylene	1.47	Wt-%
C5	6.02	Wt-%
C6-C8 non Aromatics	4.85	Wt-%
C7/C8 Aromatics	4.13	Wt-%
C9+components	19.60	Wt-%
Diene No.	5-10%	Wt

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DPG (PYROLYSIS GASOLINE)

PROPERTY	UNIT	METHOD	RESULT
DENSITY AT 15.6 °C	GR/CM3	D-4052	0.85-0.9
R.V.P	PSIA	D-323	3.0-6.0
COLOUR SAYBOLT	---	D-156	DARK BROWN
TOTAL SULPHUR	PPM	D-3120	700 MAX
LEAD CONTENT	PPB	A.A.	NILL
IBP	°C	D-86	45 MIN
5 PCT VOL RECOVERED	°C	D-86	55 MIN
95 PCT VOL RECOVERED	°C	D-86	260 MAX
FBP	°C	D-86	230 MAX
PARAFFINS	WT%	G.C	TBR
OLEFINS	WT%	G.C	MAX 15
NAPHTHENES	WT%	G.C	TBR
AROMATICS	WT%	G.C	60 MIN
OTHERS	WT%	G.C	20 MAX
BENZEN CONTENT	WT%	G.C	38 MIN
GUM CONTENT	Mg/100MI	D 381	1500 MAX
DOCTOR TEST	-----	-----	NEGATIVE
COPPER CORROSION	-----	D 849	NO 1A