Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

2770

Accredited to ISO/IEC 17025:2017

INEOS Chemicals Grangemouth Limited

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FINAL EFFLUENT	<u>Chemical and Physical Tests</u>	
	pH	Documented In-House Method LM-Water-29 to BS EN 10523:2012
	Total Suspended Solids	Documented In-House Method LM-HSE-10 to BS EN 872:2005
	Chemical Oxygen Demand	Documented In-House Method LM-HSE-28 based on ISO 6060:1989
	Oil in Water	Documented In-House Method LM-HSE-26 based on SCA Blue Book No. 77 (IBSN 0117517275)
	Hydrocarbon Oil Index (HOI)	Documented In-House Method LM-HSE-36 based on BS EN ISO 9377-2 2000 By GC-FID
LIQUIFIED PETROLEUM GAS	Propane and butane	BS EN 27941 - 1994 (Modified) supported by Documented In-House Method LM-GC-03
NATURAL GAS	C_1 - C_5 alkanes, > C_5 alkanes, air (oxygen not quantified), CO_2	ASTM D 1945-19 (Modified) supported by Documented In-House Method LM-GC-01

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PETROLEUM and PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u> (cont'd)	
	Density and relative density of liquids by digital density meter	IP 365/97(20) EN ISO 12185:24
REFINERY GAS	Determination of Composition of Fuel Gas Streams Chemical composition: Amount fraction (% mol/mol and % m/m)	Documented in-house method LM-GC-11 using gas chromatography

Component	**(% mol)**
Methane	0.01 to 99.0
Ethane	0.01 to 99.9
Ethene	0.02 to 99.9
Propane	0.01 to 99.9
Propene	0.01 to 99.5
n-Butane	0.01 to 99.9
iso-Butane	0.01 to 99.0
trans-2-Butene	0.01 to 5.0
iso-Butene	0.01 to 5.0
1-Butene	0.01 to 5.0
cis-2-Butene	0.01 to 5.0
1,3 Butadiene	0.01 to 10.0
n-Pentane	0.01 to 4.5
iso-Pentane	0.01 to 4.5
Cyclopropane	0.01 to 5.0
Propadiene	0.01 to 5.0
Acetylene	0.01 to 2.0
$C6^{+}$(>n-Pentane)	0.01 to 4.0
Hydrogen Sulphide	0.1 to 2.0
Hydrogen	0.01 to 99.9
Helium	0.01 to 99.9
Carbon Dioxide	0.02 to 50.0
Carbon Monoxide	0.02 to 50.0
Nitrogen	0.02 to 75
Oxygen	0.02 to 20.0

END