Carcinogenic and Mutagenic Substances and Substances Toxic for Repreparationion

1. It shall be prohibited to use the carcinogenic, mutagenic and chemical substances toxic for repreparationion referred to in Paragraphs 29, 30 and 31 of Annex 1 of these Regulations as substances or components of preparations in a concentration, which is equal to or greater than 0.1% in preparations, which are intended for sale in the retail trade. *[14 October 2003]*

2. The packaging of such substances and preparations shall be labelled in accordance with the regulatory enactments, which regulate the procedures for the classification, labelling and packaging of chemical substances and shall have a readable and legible inscription: "Paredzēts tikai profesionāliem lietotājiem" [Restricted to professional users]. Uzmanību! [Warning] Izvairīties no iedarbibas – pirms lietošanas iepazīties are lietošanas instrukciju! [Avoid exposure - Obtain special instructions before use].

[14 October 2003]

3. Category 1 carcinogenic substances (Paragraph 29 of Annex 1):

Substances	Index No	EC No	CAS No	Notes
Chromium trioxide	024-001-00-0	215-607-8	1333-82-0	
Zinc chromates including zinc potassium	024-007-00-3			
chromate	ļ			
Nickel monoxide	028-003-00-2	215-215-7	1313-99-1	
Nickel dioxide	028-004-00-8	234-823-3	12035-36-8	
Dinickel trioxide	028-005-00-3	215-217-8	1314-06-3	
Nickel sulphide	028-006-00-9	240-841-2	16812-54-7	
Nickel subsulphide	028-007-00-4	234-829-6	12035-72-2	
Diarsenic trioxide, arsenic trioxide	033-003-00-0	215-481-4	1327-53-3	
Arsenic pentoxide, arsenic oxide	033-004-00-6	215-116-9	1303-28-2	
Arsenic acid and its salts	033-005-00-1			
Lead hydrogen arsenate	082-011-00-0	232-064-2	7784-40-9	
Butane [containing $\geq 0,1$ % Butadiene	601-004-01-8	203-448-7 [1]	106-97-8 [1]	C, S
(203-450-8)][1]				
Isobutane [containing ≥ 0.1 % Butadiene		200-857-2 [2]	75-28-5 [2]	
(203-450-8)][2]				
1,3-Butadiene; buta-1,3-diene	601-013-00-	203-450-8	106-99-0	D
	X			
Benzene	601-020-00-8	200-753-7	71-43-2	
Vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4	
Bis (chloromethyl) ether	603-046-00-5	208-832-8	542-88-1	



			_				_	
Chloromethyl methyl ether; chlorodimethylether	60	03-075-00-3	4	203-480-1		107-30-2		
2-naphthylamine; beta-naphthylamine	61	2-022-00-3		202-080-4		91-59-8		
Benzidine; 4,4'-diaminobiphenyl;	61	2-042-00-2		202-199-1		92-87-5		
biphenyl-4,4'-ylenediamine								
Salts of benzidine	61	2-070-00-5						
Salts of 2-naphthylamine	61	2-071-00-0						
Biphenyl-4-ylamine; xenylamine; 4-	61	2-072-00-6		202-177-1		92-67-1		
aminobiphenyl								
Salts of biphenyl-4-ylamine; salts of	61	2-073-00-1						
xenylamine; salts of 4-aminobiphenyl;								
Tar, coal; Coal tar	64	8-081-00-7		232-361-7	8	3007-45-2		
(The by-preparation from the destructive								
distillation of coal. Almost black thick mass.								
A complex combination of aromatic								
hydrocarbons, phenonic compounds, mirogen								
Tar coal high temperature: Coal tar	<u> </u>	648 082 00	2	266 024 0	_	65006 80 6	-	
(The condensation preparation obtained by	1	040-002-00	-2	200-024-0		05770-07-0		
cooling to approximately room temperature	e							
the gas evolved in the destructive distillati	on							
of coal at high temperature (greater than								
700°C (1292°F)). A black, viscous liquid,								
denser than water. Composed primarily of	a							
complex mixture of condensed aromatic								
hydrocarbons. May also contain small								
amounts of phenolic compounds and								
Transact large bases.)		(19,092,00	0	2((025 (_	(500(00 0	_	
(The condensation propagation obtained by	,	048-083-00	-8	200-023-0		03990-90-9		
cooling to approximately room temperature								
the gas evolved in the destructive distillati	on							
of coal at low temperature (lower than								
700°C (1292°F)). A black, viscous liquid,								
denser than water. Composed primarily of								
condensed aromatic hydrocarbons, phenol	ic							
compounds, aromatic nitrogen bases and								
their alkyl derivatives.)								
Tar brown-coal		648-145-00	-4	309-885-0		101316-83-0		
(An oil obtained by distilling brown-coal t	ar.							
Composed primarily of aliphatic, naphthei	110							
and one- to three-ring aromatic								
heteroaromatic compounds and one- and								
two-ring phenols with a boiling point in th	e							
range of approximately $150^{\circ}\text{C} - 360^{\circ}\text{C}$								
$(302^{\circ}\text{F} - 680^{\circ}\text{F}).)$								



Tar, brown-coal, low temperature	648-146-00-	309-886-6	101316-84-1	
(A tar obtained in a brown-coal gasification	X			
and carbonisation process at low				
temperatures, is composed primarily of				
aliphatic, naphthenic cyclic aromatic				
hydrocarbons, heteroaromatic hydrocarbons				
and cyclic phenols.)				
Distillates (netroloum) light perefinie:	640.050.00.0	265 051 5	64741 50 0	
Unrefined or partly refined base oil	049-030-00-0	203-031-3	04/41-30-0	
Onrelined or party relined base on				
(A complex combination of hydrocarbons				
produced by vacuum distillation of the				
residuum from atmospheric distillation of				
crude oil. It consists primarily of				
hydrocarbons with the number of carbon				
atoms in the range from C_{15} to C_{30} and				
produces a finished oil with a viscosity of				
less than 100 SUS at 100°F (19 cSt at 40°C).				
It contains a relatively large proportion of				
saturated aliphatic hydrocarbons				
characteristic to this distillation range of				
crude oil)				
	(40.051.00.(2(5,052,0		
Distillates (petroleum); heavy paraffinic;	649-051-00-6	265-052-0	64/41-51-1	
Unrefined or partly refined base oil				
(A complex combination of hydrocarbons				
produced by vacuum distillation of the				
residuum from atmospheric distillation of				
crude oil. It consists primarily of				
hydrocarbons with the number of carbon				
atoms in the range from C_{20} to C_{50} and				
produces a finished oil with a viscosity of				
not less than 100 SUS at 100°F (19 cSt at				
40°C). It contains a relatively large				
proportion of saturated aliphatic				
hydrocarbons)				
Distillates (natroloum) light nanhthania	640 052 00 1	265 052 6	64741 52 2	
Userafined an nextly refined here all	049-032-00-1	203-035-0	04/41-32-2	
Onrelined or party relined base on				
(A complex combination of hydrocarbons				
produced by vacuum distillation of the				
residuum from atmospheric distillation of				
crude oil. It consists primarily of				
hydrocarbons with the number of carbon				
atoms in the range from C_{15} to C_{30} and				
produces a finished oil with a viscosity of				
less than 100 SUS at 100°F (19 cSt at 40°C).				
It contains relatively small amount of				
normal paraffins.)				
Distillates (netroleum) heavy nanhthenic:	649-053-00-7	265-054-1	64741-53-3	
Unrefined or partly refined base oil	5.5 000 00 /			



(A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists primarily of hydrocarbons with the number of carbon				
atoms in the range from C_{20} to C_{50} and produces a finished oil with a viscosity of				
not less than 100 SUS at 100°F (19 cSt at				
40° C). It contains relatively few normal				
paraffins.)				
Distillates (petroleum), acid-treated heavy	649-054-00-2	265-117-3	64742-18-3	
naphthenic; Unrefined or partly refined base				
(A complex combination of hydrocarbons				
obtained as a raffinate from a sulphuric acid				
treating process. It consists primarily of				
hydrocarbons with the number of carbon				
atoms in the range from C_{20} to C_{50} and				
produces a finished oil with a viscosity of				
not less than 100 SUS at 100°F (19 cSt at 10° C). It contains relatively for normal				
and the second s				
Distillates (netroleum) acid_treated light	649-055-00-8	265-118-9	64742-10-4	
naphthenic: Unrefined or partly refined base	049-035-00-0	205-110-9	0+/+2-1/-+	
oil				
(A complex combination of hydrocarbons				
obtained as a raffinate from a sulphuric acid				
treating process. It consists primarily of				
hydrocarbons with the number of carbon				
atoms in the range from C_{15} to C_{30} and				
produces a finished oil with a viscosity of $1 + 100$ CUS at 100 CU				
It contains relatively few normal paraffins)				
Distillates (natroloum), asid trasted heavy	640.056.00.2	265 110 4	64742 20 7	
paraffinic: Unrefined or partly refined base	049-050-00-5	203-119-4	04/42-20-7	
oil				
(A complex combination of hydrocarbons				
obtained as a raffinate from a sulphuric acid				
treating process. It consists primarily of				
hydrocarbons with the number of carbon				
atoms predominantly in the range from C_{20}				
to U_{50} and produces a finished oil with a				
viscosity of not less than 100 SUS at 100° F				
Distillates (notroloum) and treated light	640.057.00.0	265 121 5	64742 21 0	
paraffinic: Unrefined or partly refined base	047-037-00-9	203-121-3	04/42-21-8	
oil				
(A complex combination of hydrocarbons				



obtained as a raffinate from a sulphuric acid treating process. It consists primarily of hydrocarbons with the number of carbon atoms predominantly in the range from C_{15} to C_{30} and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C).)				
Distillates (petroleum), chemically neutralised heavy paraffinic; Unrefined or partly refined base oil (A complex combination of hydrocarbons obtained from a treating process to remove acidic materials. It consists primarily of hydrocarbons with the number of carbon atoms predominantly in the range from C_{20} to C_{50} and produces a finished oil with a viscosity of not less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively many aliphatic hydrocarbons.)	649-058-00-4	265-127-8	64742-27-4	
Distillates (petroleum), chemically neutralised light paraffinic; Unrefined or partly refined base oil (A complex combination of hydrocarbons obtained from a treating process to remove acidic materials. It consists primarily of hydrocarbons with the number of carbon atoms predominantly in the range from C_{15} to C_{30} and produces a finished oil with a viscosity of not less than 100 SUS at 100°F (19 cSt at 40°C).)	649-059-00- X	265-128-3	64742-28-5	
Distillates (petroleum), chemically neutralised heavy naphthenic; Unrefined or partly refined base oil (A complex combination of hydrocarbons obtained from a treating process to remove acidic materials. It consists of hydrocarbons with the number of carbon atoms predominantly in the range from C_{20} to C_{50} and produces a finished oil with a viscosity of not less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.)	649-060-00-5	265-135-1	64742-34-3	
Distillates (petroleum), chemically neutralised light naphthenic; Unrefined or partly refined base oil (A complex combination of hydrocarbons obtained from a treating process to remove acidic materials. It consists of hydrocarbons	649-061-00-0	265-136-7	64742-35-4	



with the number of carbon atoms predominantly in the range from C_{15} to C_{30} and produces a finished oil with a viscosity of not less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.)			
erionite	650-012-00-0	12510-42-8	
asbestos	650-013-00-6	132207-33-1 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5	

[14 October 2003; 29 June 2004]

4. Category 2 carcinogenic substances (Paragraph 29 of Annex 1):

Substances	Index No	EC No	CAS No	Notes
beryllium	004-001-00-7	231-150-7	7440-41-7	
beryllium compounds except for aluminium	004-002-00-2			
beryllium silicates				
beryllium oxide	004-003-00-8	215-133-1	1304-56-9	E
sulfallate (ISO); 2-chlorallyl	006-038-00-4	202-388-9	95-06-7	
diethyldithiocarbamate				
dimethylcarbamoyl chloride	006-041-00-0	201-208-6	79-44-7	
diazomethane	006-068-00-8	206-382-7	334-88-3	
hydrazine	007-008-00-3	206-114-9	302-01-2	
N,N-dimethylhydrazine	007-012-00-5	200-316-0	57-14-7	
1,2-dimethylhydrazine	007-013-00-0		540-73-8	
salts of hydrazine	007-014-00-6			
hydrazobenzene; 1,2-diphenylhydrazine	007-021-00-4	204-563-5	122-66-7	
hydrazine bis(3-carboxy-4-	007-022-00-X	405-030-1		
hydroxybenzensulfonate)				
hexamethylphosphoric triamide;	015-106-00-2	211-653-8	680-31-9	
hexamethylphosphoramide				
dimethyl sulphate	016-023-00-4	201-058-1	77-78-1	
diethyl sulphate	016-027-00-6	200-589-6	64-67-5	
1,3-propanesultone	016-032-00-3	214-317-9	1120-71-4	
dimethylsulfamoylchloride	016-033-00-9	236-412-4	13360-57-1	
potassium dichromate	024-002-00-6	321-906-6	7778-50-9	
ammonium dichromate	024-003-00-1	232-143-1	7789-09-5	
sodium dichromate	024-004-00-7	234-190-3	10588-01-9	
sodium dichromate, dihydrate	024-004-01-4	234-190-3	7789-12-0	
chromyl dichloride; chromic oxychloride	024-005-00-2	239-056-8	14977-61-8	
potassium chromate	024-006-00-8	232-140-6	7789-00-6	

calcium chromate	024-008-00-9	237-366-8	13765-19-0	
strontium chromate	024-009-00-4	232-142-6	7789-06-2	
chromium III chromate; chromic chromate	024-010-00-X	246-356-2	24613-89-6	
chromium (VI) compounds, except for barium	024-017-00-8	<u> </u>		
chromate and substances specified in Annex 1				
sodium chromate	024-018-00-3	231-889-5	7775-11-3	E
cobalt dichloride	027-004-00-5	231-589-4	7646-79-9	
cobalt sulphate	027-005-00-0	233-334-2	10124-43-3	
potassium bromate	035-003-00-6	231-829-8	7758-01-2	
cadmium oxide	048-002-00-0	215-146-2	1306-19-0	
cadmium fluoride	048-006-00-2	232-222-0	7790-79-6	
cadmium chloride	048-008-00-3	233-296-7	10108-64-2	
cadmium sulphate	048-009-00-9	233-331-6	10124-36-4	
benzo[a]pyrene; benzo[d,e,f]chrysene	601-032-00-3	200-028-5	50-32-8	
benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	
benzo[b]fluoranthene;	601-034-00-4	205-911-9	205-99-2	
benzo[e]acephenanthrylene				
benzo[j]fluoranthene	601-035-00-X	205-910-3	205-82-3	
benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	
dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	
chrysene	601-048-00-0	205-923-4	218-01-9	
benzo[e]pyrene	601-049-00-6	205-892-7	192-97-2	
1,2-dibromoethane; ethylene dibromide	602-010-00-6	203-444-5	106-93-4	
1,2-dichloroethane; ethylene dichloride	602-012-00-7	203-458-1	107-06-2	
1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	
bromoethylene	602-024-00-2	209-800-6	593-60-2	
trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6	
α-chlorotoluene; benzyl chloride	602-037-00-3	202-853-6	100-44-7	Е
α, α, α -trichlorotoluene; benzotrichloride	602-038-00-9	202-634-5	98-07-7	
1,3-dichloro-2-propanol	602-064-00-0	202-491-9	96-23-1	
hexachlorobenzene	602-065-00-6	204-273-9	118-74-1	
1,4-dichlorobut-2-ene	602-073-00-X	212-121-8	764-41-0	
2,3-dibromopropan-1-ol; 2,3-dibromo-1-	602-088-00-1	202-480-9	96-13-9	Е
propanol				
ethylene oxide; oxirane	603-023-00-X	200-849-9	75-21-8	
1-chloro-2,3-epoxypropane; epichlorhydrin	603-026-00-6	203-439-8	106-89-8	
propylene oxide; 1,2-epoxypropane;	603-055-00-4	200-879-2	75-56-9	E
methyloxirane				
2,2'-Bioxirane; 1,2:3,4-diepoxybutane	603-060-00-1	215-979-1	1464-53-5	
2,3-Epoxypropan-1-ol; glycidol	603-063-00-8	209-128-3	556-52-5	
Phenyl glycidyl ether; 2,3-epoxypropyl phenyl ether; 1.2-epoxy-3-phenoxypropane	603-067-00-X	204-557-2	122-60-1	E
styrene oxide; (epoxyethyl)benzene;	603-084-00-2	202-476-7	96-09-3	



phenyloxirane				
Furan	603-105-00-5	203-727-3	110-00-9	Е
R-2,3-epoxy-1-propanol	603-143-00-2	404-660-4	57044-25-4	Е
(R)-1-chloro-2,3-epoxypropane	603-166-00-8	424-280-2	51594-55-9	
4-amino-3-fluorophenol	604-028-00-X	402-230-0	399-95-1	
5-allyl-1,3-benzodioxole; safrole	605-020-00-9	202-345-4	94-59-7	
3-propanolide; 1,3-propiolactone	606-031-00-1	200-340-1	57-57-8	
urethane(INN); ethylcarbamate	607-149-00-6	200-123-1	51-79-6	
methyl acrylamidomethoxyacetate (containing \geq 0,1 % acrylamide)	607-190-00-X	401-890-7	77402-03-0	
methyl acrylamidoglycolate (containing $\geq 0,1$ % acrylamide)	607-210-00-7	403-230-3	77402-05-2	
acrylonitrile	608-003-00-4	203-466-5	107-13-1	
2-nitropropane	609-002-00-1	201-209-1	79-46-9	
2,4-Dinitrotoluene [1]; dinitrotoluene [2];	609-007-00-9	204-450-0 [1]	121-14-2 [1]	
dinitrotoluene, technical grade [2]		246-836-1 [2]	25321-14-6 [2]	
5-nitroacenaphthene	609-037-00-2	210-025-0	602-87-9	
2-nitronaphthalene	609-038-00-8	209-474-5	581-89-5	
4-nitrodiphenyl	609-039-00-3	202-204-7	92-93-3	
nitrofen (ISO); 2,4-dichlorophenyl-4-nitrophenyl ether	609-040-00-9	217-406-0	1836-75-5	
2-nitroanisole	609-047-00-7	202-052-1	91-23-6	
2,6-Dinitrotoluene	609-049-00-8	210-106-0	606-20-2	
2,3-dinitrotoluene	609-050-00-3	210-013-5	602-01-7	Е
3,4-dinitrotoluene	609-051-00-9	210-222-1	610-39-9	Е
3,5-dinitrotoluene	609-052-00-4	210-566-2	618-85-9	Е
Hydrazine-tri-nitromethane	609-053-00-X	414-850-9	—	
2,5-dinitrotoluene	609-055-00-0	210-581-4	619-15-8	Е
Azobenzene	611-001-00-6	203-102-5	103-33-3	
methyl-ONN-azoxymethyl acetate; methyl azoxy methyl acetate	611-004-00-2	209-765-7	529-62-1	
disodium {5-[(4'-((2,6-hydroxy-3-((2-hydroxy- 5-sulphophenyl)azo)phenyl)azo)(1,1'-biphenyl)- 4-yl)azo]salicylato(4-)}cuprate(2-); CI Direct Brown 95	611-005-00-8	240-221-1	16071-86-6	
4-o-tolylazo-o-toluidine; 4-amino-2',3- dimethylazobenzene; fast garnet GBC base; AAT; o-aminoazotoluene	611-006-00-3	202-591-2	97-56-3	
4-aminoazobenzene	611-008-00-4	200-453-6	60-09-3	
benzidine based azo dyes; 4,4'-diarylazobiphenyldyes, except for those	611-024-00-1			



specified in Annex 1				
Disodium4-amino 3-[[4'-[(2,4- diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5- hydroxy-6-(phenylazo)naphtalene-2,7- disulphonate; C.I. Direct Black 38	611-025-00-7	217-710-3	1937-7	
Tetrasodium3,3'-[[1,1'-biphenyl]-4,4'- dylbis(azo)]bis[5-amino-4-hydroxynaphthalene- 2,7-disulphonate];	611-026-00-2	220-012-1	2602-46-2	
Disodium3,3'-[[1,1'-bifenyl]- 4,4'dylbis(azo)]bis[4-aminonaphthalene-1- sulphonate);	611-027-00-8	209-358-4	573-58-0	
o-Dianisidine based azo dyes; 4,4'-diarylazo-3,3'- dimethoxybiphenyl dyes with the exception of those, which are referred to in the dangerous chemical substance list approved by the Minister for the Environment	611-029-00-9	_	_	
o-Tolidine based dyes; 4,4'-diarylazo-3,3'- dimethylbiphenyl dyes, with the exception of those, which are referred to in the dangerous chemical substance list approved by the Minister for the Environment	611-030-00-4	-	—	
1,4,5,8-Tetraaminoanthraquinone; C.I. Disperse Blue 1	611-032-00-5	219-603-7	2475-45-8	
6-hydroxy-1-(3-isopropoxypropyl)-4- methyl-2-oxo-5-[4-(phenylazo)phenylazo]- 1,2-dihydro-3-pyridinecarbonitrile	611-057-00-1	400-340-3	85136-74-9	
(6-(4-hydroxy-3-(2-methoxyphenylazo)- 2-sulfonato-7-naphthylamino)-1,3,5-triazin-2,4- diyl)bis[(amino-1-methylethyl)-ammonium] formate	611-058-00-7	402-060-7	108225-03-2	
Trisodium-[4'-(8-acetylamino-3,6-disulfonato- 2-naphthylazo)-4"-(6-benzoylamino- 3-sulfonato-2-naphthylazo)biphenyl-1,3',3",1"'- tetraolato-O, O', O",O"]copper(II)	611-063-00-4	413-590-3	_	
Phenylhydrazine [1] Phenylhydrazinium chloride [2]	612-023-00-9	202-873-5 [1] 200-444-7 [2]	100-63-0 [1] 59-88-1 [2]	
Phenylhydrazine hydrochloride [3] Phenylhydrazinium sulphate (2:1) [4]		248-259-0 [3] 257-622-2 [4]	27140-08-5 [3] 52033-74-6 [4]	
toluene-2,2-diammonium sulphate	612-126-00-9	365-697-8	65321-67-7	



2-methoxyaniline; o-anisidine,	612-035-00-4	201-963-	90-04-0	
3,3'-dimethoxybenzidine; o-dianisidine	612-036-00-X	204-355-4	119-90-4	
salts of 3,3'-dimethoxybenzidine; salts of o- dianisidine	612-037-00-5			
3,3'-dimethylbenzidine; o-tolidine	612-041-00-7	204-358-0	119-93-7	
4,4'-diaminodiphenylmethane; 4,4'- methylenedianiline	612-051-00-1	202-974-4	101-77-9	
3,3'-dichlorobenzidine; 3,3'-dichlorobiphenyl- 4,4'-ylenediamine	612-068-00-4	202-109-0	91-94-1	
salts of 3,3'-dichlorobenzidine; salts of 3,3'- dichlorobiphenyl-4,4'-ylenediamine	612-069-00-X			
N-nitrosodimethylamine; dimethylnitrosamine	612-077-00-3	200-549-8	62-75-9	
2,2'-dichloro-4,4'-methylenedianiline; 4,4'- methylene bis(2-chloroaniline)	612-078-00-9	202-918-9	101-14-4	
salts of 2,2'-dichloro-4,4'-methylenedianiline; salts of 4,4'-methylenebis(2-chloroaniline)	612-079-00-4			
salts of 3,3'-dimethylbenzidine; salts of o- tolidine	612-081-00-5			
1-methyl-3-nitro-1-nitrosoguanidine	612-083-00-6	200-730-1	70-25-7	
4,4'-methylenedi-o-toluidine	612-085-00-7	212-658-8	838-88-0	
2,2'-(nitrosoimino)bisethanol	612-090-00-4	214-237-4	1116-54-7	
o-toluidine	612-091-00-X	202-429-0	95-53-4	
nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7	
4-methyl-m-phenylenediamine	612-099-00-3	202-453-1	95-80-7	
4- chloraniline	612-137-00-9	203-401-0	106-47-8	
ethyleneimine; aziridine	613-001-00-1	205-793-9	151-56-4	
2-methylaziridine; propyleneimine	613-033-00-6	200-878-7	75-55-8	
captafol (ISO); 1,2,3,6-tetrahydro-N-(1,1,2,2- tetrachloroethylthio) phthalimide	613-046-00-7	219-363-3	2425-06-1	
carbadox (INN); methyl 3-(quinoxalin-2-ylmethylene)carbazate 1,4-dioxide; 2- (methoxycarbonylhydrazonomethyl)quinoxaline 1,4-dioxide	613-050-00-9	229-879-0	6804-07-5	
acrylamide	616-003-00-0	201-173-7	79-06-1	
thioacetamide	616-026-00-6	200-541-4	62-55-5	

A mixture of: N-[3-hydroxy-2-(2-	616-057-00-5	412-790-8	—	
methylacryloylamino-				
methoxy)propoxymethyl]-				
2-methylacrylamide; N-[2,3-				
Bis-(2-methylacryloylamino-methoxy)-				

4 11 0 4 1 1 1				
propoxymethyl]-2-methylacrylamide;				
methacrylamide; 2-methyl-N-(2-				
acrulamide:				
N 2.2 dibudrovumronovumothul)				
2 mathylaanulamida				
	(40,001,00,0	202 402 7	94650 02 2	
Distillates (coal tar), benzole fraction; Light oil	648-001-00-0	283-482-7	84650-02-2	
(A complex combination of hydrocarbons				
obtained by the distillation of coal tar. It consists				
of hydrocarbons with the number of carbon				
atoms predominantly in the range of C_4 to C_{10} and distilling in the supervised to range of 800°				
distilling in the approximate range of 80° C –				
100 C (1/3 F - 320 F).)	(10,000,00,0		04114 40 6	T
1 ar oils, brown-coal; Light oil	648-002-00-6	302-6/4-4	94114-40-6	J
(The distillate from lignite tar with a boiling				
point in the range of approximately 80° C –				
250° C (1/6°F – 482°F). Composed primarily of				
aliphatic and aromatic hydrocarbons and				
monobasic pnenois.)	< 10, 00 0 , 00, 1			
Benzole forerunnings (coal); Light oil redistillate	648-003-00-1	266-023-5	65996-88-5	J
with low boiling point				
(Light oil distillate produced in a coal coking				
process and distilling at temperatures lower than				
approximately 100°C (212°F). Composed				
primarily of aliphatic hydrocarbons with the				
number of carbon atoms from C_4 to C_6 .)				
Distillates (coal tar), benzole fraction, enriched	648-004-00-7	309-984-9	101896-26-8	J
with benzole, toluene and xylene; Light oil				
redistillate with a low boiling point				
(A residue after the distillation of crude benzole				
to remove benzole fronts. Composed primarily				
of benzole, toluene and xylenes with a boiling				
point in the range of approximately $75^{\circ}C -$				
$200^{\circ}\text{C} (16/^{\circ}\text{F} - 392^{\circ}\text{F}).)$				
Aromatic hydrocarbons, C ₆₋₁₀ , C ₈ -rich; Light oil	648-005-00-2	292-697-5	90989-41-6	J
redistillate with a low boiling point				
Solvent naphtha (coal), Light oil redistillate with	648-006-00-8	287-498-5	85536-17-0	J
a low boiling point				
Solvent naphtha (coal), xylene-styrene cut; Light	648-007-00-3	287-502-5	85536-20-5	J
oil redistillate with an intermediate boiling point				
Solvent naphtha (coal), coumarone-styrene	648-008-00-9	287-500-4	85536-19-2	J
containing; Light oil redistillate with an				
intermediate boiling point				
Naphtha (coal), distillation residues; Light oil	648-009-00-4	292-636-2	90641-12-6	J
redistillate with a high boiling point			_	
(The residue remaining from the distillation of				
recovered naphtha. Composed primarily of				
naphthalene, as well as condensation				



preparations of indene and styrene.)				
Aromatic hydrocarbons, C8; Light oil redistillate	648-010-00-X	292-694-9	90989-38-1	J
with a high boiling point				
Aromatic hydrocarbons, C ₈₋₉ , hydrocarbon resin	648-012-00-0	295-281-1	91995-20-9	J
polymerisation by-preparation; Light oil				
redistillate with a high boiling point				
(A complex combination of hydrocarbons				
obtained from the evaporation of solvent under				
vacuum from polymerised hydrocarbon resin. It				
consists predominantly of hydrocarbons with the				
number of carbon atoms predominantly in the				
range of C ₈ toC ₉ and a boiling point in the range				
of approximately 120°C - 215°C (248°F -				
419°F).)				
Aromatic hydrocarbons, C9-12, benzene	648-013-00-6	295-551-9	92062-36-7	J
distillates; Light oil redistillate with a high				
boiling point				
Extract residues (coal), benzole fraction, alkali,	648-014-00-1	295-323-9	91995-61-8	J
acid-extracted; Light oil extract residues with a				
low boiling point				
(The redistillate from the distillation of				
bituminous coal high temperature tar (boiling				
point in the approximate range of $90^{\circ}C - 160^{\circ}C$				
$(194^{\circ}\text{F} - 320^{\circ}\text{F})$, freed of tar bases and tar acids.				
It consists predominantly of benzene, toluene				
and xylenes.)				
Extract residues (coal tar), benzole fraction,	648-015-00-7	309-868-8	101316-63-6	J
alkali, acid-extracted; Light oil extract residues				
with a low boiling point				
(A complex combination of hydrocarbons				
obtained by the redistillation of the distillate of				
high temperature coal tar (freed of tar bases and				
tar acids). It consists predominantly of				
substituted and unsubstituted mononuclear				
aromatic hydrocarbons with a boiling point in				
the range of 85° C – 195° C (185° F – 383° F).)				
Extract residues (coal), acid benzole fraction	648-016-00-2	298-725-2	93821-38-6	J
Light oil extract residues with a low boiling				
point				
(An acid sludge by-preparation obtained by				
sulphuric acid refining of crude high temperature				
coal. Composed primarily of sulphuric acid and				
organic compounds.)				
Extract residues (coal). light oil alkaline fraction	648-017-00-8	292-625-2	90641-02-4	J
distillation overheads: Light oil extract residues				-
with a low boiling point				
(The first fraction from the distillation of				
aromatic hydrocarbons, coumarone, naphthalene				



and indene rich prefactionator bottoms or				
washed carbolic oil (boiling point substantially				
below 145°C (293°F). Composed primarily of C ₇				
and C ₈ aliphatic and aromatic hydrocarbons.)				
Extract residues (coal), light oil, alkali, acid-	648-018-00-3	309-867-2	101316-62-5	J
extracted, indene fraction; Light oil extract				
residues with an intermediate boiling point				
Extract residues (coal), light oil alkali, indene	648-019-00-9	292-626-8	90641-03-5	J
naphtha fraction; Light oil extract residues with a				
high boiling point				
(The distillate from aromatic hydrocarbons,				
coumarone, naphthalene and indene rich				
prefractionator bottoms or washed carbolic oils,				
with an approximate boiling point in the range of				
155° C – 180° C (311° F – 356° F). Composed				
primarily of indene, indan and				
trimethylbenzenes.)				
Solvent naphtha (coal), Light oil extract residues	648-020-00-4	266-013-0	65996-79-4	J
with a high boiling point				
(The distillate from high temperature coal tar,				
coke oven light oil, or coal tar oil alkaline extract				
residue with a boiling point in the range of				
approximately $130^{\circ}C - 210^{\circ}C$ ($266^{\circ}F - 410^{\circ}F$).				
Composed primarily of indene and other				
polycyclic ring systems containing a single				
aromatic ring. May contain phenols and aromatic				
nitrogen bases.)				
Distillates (coal tar), light oils, neutral fraction;	648-021-00-X	309-971-8	101794-90-5	J
Light oil extract residues with a high boiling				
point				
(A distillate from the fractional distillation of				
high temperature coal tar. Composed primarily				
of alkyl-substituted one ring aromatic				
hydrocarbons with a boiling point in the range of				
approximately $135^{\circ}\text{C} - 210^{\circ}\text{C} (275^{\circ}\text{F} - 410^{\circ}\text{F}).$				
May also contain unsaturated hydrocarbons such				
as indene and coumarone.)				
Distillates (coal tar), light oils, acid-extracted;	648-022-00-5	292-609-5	90640-87-2	J
Light oil extract residues with a high boiling				
point				
(This oil is a complex mixture of aromatic				
hydrocarbons, primarily indene, naphthalene,				
coumarone, phenol and o-, m- and p-cresol with				
a boiling point in the range of $140^{\circ}\text{C} - 215^{\circ}\text{C}$				
$(204 \Gamma - 417 \Gamma).)$			04650.02.2	
Distillates (coal tar), light oils; Carbolic oil	648-023-00-0	283-483-2	84650-03-3	J
(A complex combination of hydrocarbons				
obtained by distillation of coal tar. It consists of				



aromatic and other hydrocarbons, phenolic compounds and aromatic nitrogen compounds				
and distils at the approximate range of $150^{\circ}C - 210^{\circ}C (302^{\circ}F - 410^{\circ}F)$.)				
Tar oils, coal; Carbolic oil (The distillate from high temperature coal tar that distils at the approximate range of 130°C – 250°C (266°F – 410°F). Composed primarily of naphthalene, alkylnaphthalenes, phenolic compounds, and aromatic nitrogen bases.)	648-024-00-6	266-016-7	65996-82-9	J
Extract residues (coal), light oil extracted by alkali, acids; Carbolic oil extract residue (The oil resulting from the acid washing of alkali-washed carbolic oil to remove the minor amounts of basic compounds (tar bases). Composed primarily of indene, indan and alkylbenzenes.)	648-026-00-7	292-624-7	90641-01-3	J
Extract residues (coal), tar oil, alkali; Carbolic oil extract residue (The residue obtained from coal tar oil by an alkaline wash (for example, aqueous sodium hydroxide) after the removal of crude coal tar acids. Composed primarily of naphthalenes and aromatic nitrogen bases.)	648-027-00-2	266-021-4	65996-87-4	J
Extract oils (coal), light oil; Acid extract (The aqueous extract produced by an acidic wash of alkali-washed carbolic oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.)	648-028-00-8	292-622-6	90640-99-6	J
Pyridine, alkyl derivatives; Crude tar bases (The complex combination of polyalkylated pyridines derived from coal tar distillation or as high-boiling distillates approximately above 150°C (302°F), from the reaction of ammonia with acetaldehyde, formaldehyde or paraformaldehyde.)	648-029-00-3	269-929-9	68391-11-7	J
Tar bases, coal, picoline fraction; Distillate bases (Pyridine bases with a boiling point in the range of approximately 125° C – 160° C (257° F - 320° F) obtained by distillation of neutralised acid extract of the base-containing tar fraction obtained by the distillation of bituminous coal tars. Composed primarily of lutidines and picolines.)	648-030-00-9	295-548-2	92062-33-4	J
Tar bases, coal, lutidine fraction; Distillate bases	648-031-00-4	293-766-2	91082-52-9	J
Extract oils (coal), tar base, collidine fraction; Distillate bases	648-032-00-X	273-077-3	68937-63-3	J

(The extract produced by the acid extraction of				
bases from crude coal tar aromatic oils, with				
subsequent neutralisation and distillation of the				
bases Composed primarily of collidines aniline				
toluidines lutidines xylidines)				
Tar bases, and colliding fraction. Distillate	648 022 00 5	205 542 5	02062 28 7	T
hasas	048-033-00-3	295-545-5	92002-28-7	J
The distillation function with a bailing point in				
(The distination fraction with a boning point in				
the range of approximately $181^{\circ}\text{C} = 180^{\circ}\text{C}$				
$(350^{\circ}\text{F} - 36/^{\circ}\text{F})$ from the crude bases obtained				
from the neutralised, acid extracted base-				
containing tar fractions obtained by the				
distillation of bituminous coal tar. It contains				
primarily aniline and collidines.)				
Tar bases, coal, aniline fraction; Distillate bases	648-034-00-0	295-541-4	92062-27-6	J
(The distillation fraction with a boiling point in				
the range of approximately 180°C – 200°C				
$(356^{\circ}F - 392^{\circ}F)$ from the crude bases obtained				
by dephenolating and debasing the oil from the				
distillation of coal tar. It contains primarily				
aniline, collidines, lutidines and toluidines.)				
Tar bases, coal, toluidine fraction; Distillate	648-035-00-6	293-767-8	91082-53-0	J
bases				
Distillates (petroleum), alkene-alkyene pyrolysis	648-036-00-1	295-292-1	91995-31-2	J
oil, mixed with high temperature coal tar, indene				
fraction: Redistillates				
(A complex combination of hydrocarbons				
obtained as a redistillate from the fractional				
distillation of bituminous coal high temperature				
tar and residual oils that are obtained by the				
pyrolytic preparationion of alkenes and alkynes				
from petroleum preparations or natural gas. It				
consists predominantly of indene and its boiling				
point is in a range of approximately $160^{\circ}C -$				
$190^{\circ}C (320^{\circ}F - 374^{\circ}F).)$				
Distillates (coal) coal tar-residual pyrolysis oils	648-037-00-7	295_295_8	01005_35_6	T
naphthalene oils: Redistillates	0-0-0-0-7	275-275-0	71775-55-0	5
(The redistillate obtained from the fractional				
distillation of hituminous coal high temperature				
tar and pyrolysis residual oils with a boiling				
noint in the range of approximately 100°C				
270°C (274°E 518°E) Composed primarily of				
substituted dinuclear aromatic compounds)				
Extract cile (cool) cool tor residual extractor		205 220 1	01005 66 2	T
Extract ons (coar), coar tar-residual pyrolysis	040-038-00-2	293-329-1	71773-00-3	J
(The mediatillate from the frontiant, Neutral distillates				
(Ine redistillate from the fractional distillation of				
depnenoiated and debased methyinaphthalene oil				
obtained from bituminous coal high temperature				



		1		
tar and pyrolysis residual oils with a boiling				
point in the approximate range of $220^{\circ}\text{C} - 230^{\circ}\text{C}$				
$(428^{\circ}F - 446^{\circ}F)$. It consists predominantly of				
unsubstituted and substituted dinuclear aromatic				
hydrocarbons.)		<u> </u>		
Extract oils (coal), coal tar-residual pyrolysis	648-039-00-8	310-170-0	122070-79-5	J
oils, naphthalene oils; Redistillates				
(A neutral oil obtained by dephenolating and				
debasing the oil obtained from the distillation of				
high temperature tar and pyrolysis residual oils				
with a boiling point in the range of 225°C –				
$255^{\circ}C (437^{\circ}F - 491^{\circ}F)$. Composed primarily of				
substituted dinuclear aromatic hydrocarbons.)		<u> </u>		
Extract oils (coal), coal tar-residual pyrolysis	648-040-00-3	310-171-6	122070-80-8	J
oils, naphthalene oils; distillation residues;				
Redistillates				
(Residue from the distillation of dephenolated				
and debased methylnaphthalene oil (obtained				
from bituminous coal tar and pyrolysis residual				
oils) with a boiling point in the range of 240°C –				
260° C (464° F – 500° F). Composed primarily of				
substituted dinuclear aromatic and heterocyclic				
hydrocarbons.)				
Absorption oils, bicyclo aromatic and	648-041-00-9	309-851-5	101316-45-4	М
heterocyclic hydrocarbon fraction: Wash oil				
redistillate				
(A complex combination of hydrocarbons				
obtained as a redistillate from the distillation of				
wash oil. It consists predominantly of 2-ringed				
aromatic and heterocyclic hydrocarbons with a				
boiling point in the range of approximately				
$260^{\circ}\text{C} - 290^{\circ}\text{C} (500^{\circ}\text{F} - 554^{\circ}\text{F}).)$				
Distillates (coal tar) fluorene-rich upper	648-042-00-4	248-900-0	84989-11-7	М
fraction: Wash oil redistillate	040-042-00-4	240-900-0	04707-11-7	101
(A complex combination of hydrocarbons				
obtained by the crystallisation of coal tar. It				
consists of aromatic and polycyclic hydrocarbons				
primarily fluorene and some acenantthene)				
Crasseta ail accompletiona fraction	648 042 00 X	202 606 0	00640 85 0	М
creosole on, acchaphinene fraction,	040-043-00-A	292-000-9	90040-83-0	101
(The oil remaining after removed by a				
crystallisation process of acenanthhane from				
acenantithene oil from coal tar. Composed				
nrimarily of nonthalana and ally lagast thalanaa				
Distillator (control tor) have in the	(49.044.00.5			
Distillates (coal tar), neavy oils; Heavy	048-044-00-5	292-607-4	90640-86-1	
(Distillate from the fractional distillation of coal				
tar of bituminous coal, with a boiling point in the	1			



range of 240° C – 400° C (464° F – 752° F).				
Composed primarily of tri- and polynuclear				
hydrocarbons and heterocyclic compounds.)				
Anthracene oil, acid extraction; Anthracene oil	648-046-00-6	295-274-3	91995-14-1	М
extract residue				
(A complex combination of hydrocarbons from				
the base-freed fraction obtained from the				
distillation of coal tar with a boiling point in the				
range of approximately 325°C – 365°C (617°F –				
689°F). It contains predominantly anthracene and				
phenanthrene and their alkyl derivatives.)				
Distillates (coal tar); Heavy anthracene oil (The	648-047-00-1	266-027-7	65996-92-1	М
distillate from coal tar with a boiling point in the				
range of approximately 100°C – 450°C (212°F –				
842°F). Composed primarily of two to four				
membered condensed ring aromatic				
hydrocarbons, phenolic compounds, and				
aromatic nitrogen bases.)				
Distillates (coal tar), pitch, heavy oils; Heavy	648-048-00-7	295-312-9	91995-51-6	М
anthracene oil				
(The distillate from the distillation of the pitch				
obtained from bituminous high temperature tar.				
Composed primarily of tri- and polynuclear				
aromatic hydrocarbons with a boiling point in				
the range of approximately $300^{\circ}C - 470^{\circ}C$				
$(572^{\circ}\text{F} - 878^{\circ}\text{F})$. The preparation may also				
contain heteroatoms.)				
Distillates (coal tar); pitch; Heavy anthracene oil	648-049-00-2	309-855-7	101316-49-8	М
(The oil obtained from condensation of the				
vapours from the heat treatment of pitch.				
Composed primarily of two- to four-ring				
aromatic compounds with a boiling point in the				
range from 200°C to greater than 400°C (392°F				
to greater than 752°F).)				
Distillates (coal tar), heavy oils; pyrene fraction;	648-050-00-8	295-304-5	91995-42-5	М
Heavy anthracene oil redistillate				
(The redistillate obtained from the fractional				
distillation of pitch distillate with a boiling point				
in the range of approximately 350°C – 400°C				
(662°F – 752°F). Consists predominantly of tri-				
and polynuclear aromatic and heterocyclic				
hydrocarbons.)				
Distillates (coal tar); pitch; pyrene fraction	648-051-00-3	295-313-4	91995-52-7	М
Heavy anthracene oil redistillate				
(The redistillate obtained from the fractional				
distillation of pitch distillate with a boiling point				
in the range of approximately 380°C – 410°C				
$(716^{\circ}\text{F} - 770^{\circ}\text{F})$. Composed primarily of tri- and				



polynuclear aromatic hydrocarbons and heterocyclic compounds)				
Paraffin waxes (coal), brown-coal high temperature tar, carbon-treated; Coal tar extract (A complex combination of hydrocarbons obtained by the treatment of lignite carbonisation tar with activated carbon for removal of impurities and undesirable trace constituents. It consists predominantly of saturated straight and branched chain hydrocarbons with the number of carbon atoms greater than C_{12} .)	648-052-00-9	308-296-6	97926-76-6	М
Paraffin waxes (coal), brown-coal high temperature tar, carbon-treated; Coal tar extract (A complex combination of hydrocarbons obtained by the treatment of lignite carbonisation tar with bentonite for removal of impurities and undesirable trace constituents. It consists predominantly of saturated straight and branched chain hydrocarbons with the number of carbon atoms greater than C_{12} .)	648-053-00-4	308-297-1	97926-77-7	М
Pitch	648-054-00-X	263-072-4	61789-60-4	M
Pitch, coal tar, high temperature (The residue from the distillation of high temperature coal tar. A black, solid mass with a softening point in the range of approximately 30° C - 180^{\circ}C (86° F - 356° F). Composed primarily of a complex mixture of three or more membered condensed ring aromatic hydrocarbons.)	648-055-00-5	266-028-2	65996-93-2	
Pitch, coal tar, high temperature, heat-treated; Pitch (The heat treated residue from the distillation of high temperature coal tar. A black, solid mass with a softening point in the range of approximately 80° C – 180° C (176° F – 356° F). Composed primarily of a complex mixture of three or more membered condensed ring aromatic hydrocarbons.)	648-056-00-0	310-162-7	121575-60-8	М
Pitch, coal tar, high temperature, secondary; Pitch redistillate (The residue obtained during the distillation of fractions from bituminous coal high temperature tar with a high boiling point and/or pitch coke oil, with a softening point of 140° C – 170° C (284° F – 392° F) according to DIN 52025. Composed primarily of tri- and polynuclear aromatic compounds, which also contain heteroatoms.)	648-057-00-6	302-650-3	94114-13-3	М



Residues (coal tar), pitch distillate; Pitch redistillate (Residue from the fractional distillation of pitch	648-058-00-1	295-507-9	92061-94-4	М
distillate with a boiling point in the range of approximately 400° C – 470° C (752° F – 846° F). Composed primarily of polynuclear aromatic				
hydrocarbons and heterocyclic compounds.)				
Tar, coal, high-temperature, distillation and storage residues; Coal tar solid residues (Coke- and ash-containing solid residues that separate in bituminous coal high temperature tar distillation installations and Torage vessels. Consists predominantly of carbon and contains a small quantity of hero compounds as well as ash components.)	648-059-00-7	295-535-1	92062-20-9	M
Tar, coal, storage residues; Coal tar solid residues (The deposit removed from crude coal tar storages. Composed primarily of coal tar and carbonaceous particulate matter.)	648-060-00-2	293-764-1	91082-50-7	M
Tar, coal, high temperature, residues; Coal tar solid residues (Solids formed during the coking of bituminous coal to produce crude bituminous coal high temperature tar. Composed primarily of coke and coal particles, highly aromatised compounds and mineral substances.)	648-061-00-8	309-726-5	100684-51-3	M
Tar, coal, high temperature, high solids content; Coal tar solid residues (The condensation preparation obtained by cooling to approximately room temperature the gas evolved in the destructive distillation of coal at high temperature (greater than 700°C (1292°F)). Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons which also contains other coal- type materials.)	648-062-00-3	273-615-7	68990-61-4	М
Waste solids, coal-tar pitch coking; Coal tar solid residues (The combination of wastes formed by the coking of bituminous coal tar pitch. It consists predominantly of carbon.)	648-063-00-9	295-549-8	92062-34-5	М
Extract residues (coal), brown; Coal tar extract (The residue from extraction of dried coal.)	648-064-00-4	294-285-0	91697-23-3	М
Paraffin waxes (coal), brown-coal high temperature tar; Coal tar extract (A complex combination of hydrocarbons obtained from lignite carbonisation tar by solvent	648-065-00-X	295-454-1	92045-71-1	М



crystallisation by mechanical deoiling or an				
adducting process. It consists predominantly of				
straight or branched chain saturated				
hydrocarbons with the number of carbon atoms				
nredominantly greater than C ₁₂)				
$\frac{1}{2} = \frac{1}{2} = \frac{1}$		205 455 7		M
Parallin waxes (coal), brown-coal high	648-066-00-5	295-455-7	92045-72-2	M
temperature tar, hydrotreated; Coal tar extract				
(A complex combination of hydrocarbons				
obtained from lignite carbonisation tar by solvent				
crystallisation, by mechanical deoiling or an				
adducting process treated with hydrogen in the				
presence of a catalyst. It consists predominantly				
of straight or branched chain saturated				
hydrocarbons with the number of carbon atoms				
predominantly greater than C ₁₂ .)				
Paraffin waxes (coal), brown-coal high	648-067-00-0	308-298-7	97926-78-8	М
temperature tar, silicic acid-treated; Coal tar				
extract				
(A complex combination of hydrocarbons				
obtained by the treatment of lignite carbonisation				
tar with silicic acid for removal of undesirable				
constituents and impurities. It consists				
predominantly of saturated straight and branched				
chain hydrocarbons with the number of carbon				
atoms predominantly greater than C_{12} .)				
Tar and low temperature distillation residues:	648 068 00 6	200 887 1	101216 85 2	М
Tar, coal, low temperature, distination residues,	048-008-00-0	309-007-1	101310-83-2	1V1
(Desidues from frontional distillation of low				
temperature and ter to remove ails with a bailing				
neint in the range up to enprovimentally 200%				
(572%). Compared primarily of energy 500 C				
(372 F). Composed primarily of aromatic				
compounds.)				
Pitch, coal tar, low temperature Pitch residue	648-069-00-1	292-651-4	90669-57-1	М
(Black solid or thick mass obtained from the				
distillation of low temperature coal tar. Softening				
point in the range of approximately 40°C –				
$180^{\circ}C (104^{\circ}F - 356^{\circ}F)$. Composed primarily of a				
complex mixture of hydrocarbons.)				
Pitch, coal tar, low temperature, oxidised; Pitch	648-070-00-7	292-654-0	90669-59-3	М
residue, oxidised				
(The preparation obtained by air-blowing, at				
elevated temperature, low-temperature coal tar				
pitch. Softening point in the range of				
approximately 70° C – 180° C (158° F – 356° F).				
Composed primarily of a complex mixture of				
hydrocarbons.)				
Pitch coal tar low temperature heat treated:	648-071 00 2	202-653 5	90669-58 2	М
Ditch residue, ovidised heat treated	0-0-071-00-2	292-033-3	70009-30-2	101
ו זוטוו וכאונונט, טאונואטע, ווכמו-נוכמוטע	1	l i i i i i i i i i i i i i i i i i i i		



(A complex black solid mass obtained by the				
heat treatment of low temperature coal tar pitch				
with a softening point within the approximate				
range of 50° C – 140° C (122° F – 284° F).				
Composed primarily of a complex mixture of				
aromatic compounds.)				
Distillates (coal-petroleum), condensed-ring	648-072-00-8	269-159-3	68188-48-7	М
aromatic substances; Distillates				
(The distillate from a mixture of coal and tar and				
aromatic petroleum streams with a distillation				
temperature in the approximate range of 220°C –				
450° C (482° F – 842° F). Composed primarily of				
3- to 4-membered condensed ring aromatic				
hydrocarbons.)				
Aromatic hydrocarbons, C ₂₀₋₂₈ , polycyclic,	648-073-00-3	309-956-6	101794-74-5	М
mixed coal-tar pitch-polyethylene-polypropylene				
pyrolysis-derived; Pyrolysis preparations				
(A complex combination of hydrocarbons				
obtained from mixed coal tar pitch-polyethylene-				
polypropylene pyrolysis. Composed primarily of				
polycyclic aromatic hydrocarbons with the				
number of carbon atoms predominantly in the				
range of C ₂₀ -C ₂₈ and a softening point in the				
range of 100°C – 220°C (212°F – 428°F)				
(according to DIN 52025).)				
Aromatic hydrocarbons, C ₂₀₋₂₈ , polycyclic,	648-074-00-9	309-957-1	101794-75-6	М
mixed coal-tar pitch-polyethylene pyrolysis-				
derived; Pyrolysis preparations				
(A complex combination of hydrocarbons				
obtained from mixed coal tar pitch-polyethylene				
pyrolysis. Composed primarily of polycyclic				
aromatic hydrocarbons with the number of				
carbon atoms predominantly in the range of C ₂₀₋				
28 and having a softening point in the range of				
$100^{\circ}\text{C} - 220^{\circ}\text{C} (212^{\circ}\text{F} - 428^{\circ}\text{F})$ (according to				
DIN 52025).)				
Aromatic hydrocarbons, C ₂₀₋₂₈ , polycyclic,	648-075-00-4	309-958-7	101794-76-7	М
mixed coal-tar pitch-polystyrene pyrolysis-				
derived; Pyrolysis preparations				
(A complex combination of hydrocarbons				
obtained from mixed coal tar pitch-polystyrene				
pyrolysis. Composed primarily of polycyclic				
aromatic hydrocarbons with the number of				
carbon atoms predominantly C20-28 and a				
softening point in the range of 100°C – 220°C				
(212°F – 428°F) (according to DIN 52025).)				
Pitch, coal tar-petroleum; Pitch residues	648-076-00-X	269-109-0	68187-57-5	M
(The residue from the distillation of a mixture of				



coal tar and aromatic petroleum streams. A solid				
substance with a softening point in the range of				
40°C – 180°C (140°F – 356°F). Composed				
primarily of a complex combination of three or				
more membered condensed ring aromatic				
hydrocarbons.)				
Phenanthrene, distillation residues; Heavy	648-077-00-5	310-169-5	122070-78-4	М
anthracene oil redistillate				
(Residue from the distillation of crude				
phenanthrene with a boiling point in the range of				
approximately 340°C – 420°C (644°F – 788°F).				
It consists predominantly of phenanthrene,				
anthracene and carbazole.)				
Distillates (coal tar), upper fraction, fluorene-	648-078-00-0	284-899-7	84989-10-6	М
free; Wash oil redistillate				
(A complex combination of hydrocarbons				
obtained by the crystallisation of tar oil. It				
consists of aromatic polycyclic hydrocarbons,				
primarily diphenyl, dibenzofuran and				
acenaphthene.)				
Residues (coal tar), creosote oil distillation;;	648-080-00-1	295-506-3	92061-93-3	М
Wash oil redistillate				
(The residue from the fractional distillation of				
wash oil with a boiling point in the range of				
approximately 270° C – 330° C (518° F – 626° F).				
It consists predominantly of dinuclear aromatic				
and heterocyclic hydrocarbons.)				
Distillates (coal), coke-oven light oil,	648-084-00-3	285-076-5	85029-51-2	J, M
naphthalene cut; Naphthalene oil				
(The complex combination of hydrocarbons				
obtained from prefractionation distillation of				
coke oven light oil. It consists predominantly of				
naphthalene, coumarone and indene and boils				
above 148°C (298°F).)				
Distillates (coal tar), naphthalene oils, low	648-086-00-4	284-898-1	84989-09-3	J, M
naphthalene content; Naphthalene oil redistillate				
(A complex combination of hydrocarbons				
obtained by the crystallisation of naphthalene oil.				
Composed primarily of naphthalene, alkyl				
naphthalenes and phenolic compounds.)				
Distillates (coal tar), naphthalene oil	648-087-00-X	295-310-8	91995-49-2	J, M
crystallisation filtrate; Naphthalene oil				
redistillate				
(A complex combination of organic substances				
obtained as a filtrate from the crystallisation of				
the naphthalene fraction from coal tar with a				
boiling point in the range of approximately				
$200 \text{ C} - 230 \text{ C} (392^{\circ}\text{F} - 440^{\circ}\text{F})$. Composed				



primarily of naphthalene, thionaphthene and alkylnaphthalenes.)				
Extract residues (coal), naphthalene oil, alkali:	648-088-00-5	310-166-9	121620-47-1	J. M
Naphthalene oil extract residue				-,
(A complex combination of hydrocarbons				
obtained from the alkali washing of naphthalene				
oil to remove phenolic compounds (tar acids). It				
is composed of naphthalene and alkyl				
naphthalenes.)				
Extract residues (coal), naphthalene oil, alkali,	648-089-00-0	310-167-4	121620-48-2	J, M
low naphthalene content; Naphthalene oil extract				
residue				
(A complex combination of hydrocarbons				
remaining after the removal of naphthalene from				
alkali-washed naphthalene oil by a crystallisation				
process. It is composed primarily of naphthalene				
and alkyl naphthalenes.)				
Distillates (coal tar), naphthalene oils,	648-090-00-6	292-612-1	90640-90-7	J, M
naphthalene-free, alkali extracts; Naphthalene oil				
extract residue				
(The oil remaining after the removal of phenolic				
compounds (tar acids) from drained naphthalene				
oil by an alkali wash. It is composed primarily of				
naphthalene and alkyl naphthalenes.)				
Extract residues (coal), alkali-treated	648-091-00-1	292-627-3	90641-04-6	J, M
naphthalene oil, distillation overheads;				
Naphthalene oil extract residue				
(The distillation from alkali-washed naphthalene				
oil with a distillation point in the range of				
approximately 180°C – 220°C (356°F – 428°F).				
It is composed primarily of naphthalene				
alkylbenzenes, indene and indan.).)				
Distillates (coal tar), naphthalene oils,	648-092-00-7	309-985-4	101896-27-9	J, M
methylnaphthalene fraction; Methylnaphthalene				
oil				
(A distillate obtained from the fractional				
distillation of high temperature coal tar.				
Composed primarily of substituted two ring				
aromatic hydrocarbons and aromatic nitrogen				
bases with a boiling point in the range of				
approximately 225°C – 255°C (437°F – 491°F).)				
Distillates (coal tar), naphthalene oils, indole-	648-093-00-2	309-972-3	101794-91-6	J, M
methylnaphthalene fraction; Methylnaphthalene				
oil				
(A distillate obtained from the fractional				
distillation of high temperature coal tar.				
Composed primarily of indole and				
mathylpanhthalana with a bailing point in the				



range of approximately 235°C – 255°C (455°F – 491°F).)				
Distillates (coal tar), naphthalene oils, acid extraction; Methylnaphthalene oil extract residue (A complex combination of hydrocarbons obtained by debasing the methylnaphthalen fraction obtained by the distillation of coal tar with a boiling point in the range of approximately 230° C - 255° C (466° F - 491° F). Composed primarily of 1(2)-methylnaphthalene, naphthalene, dimethylnaphthalene and biphenyl.)	648-094-00-8	295-309-2	91995-48-1	J, M
Extract residues (coal), alkali-treated naphthalene oil, distillation residues; Methylnaphthalene oil extract residue (The residue from the distillation of alkali- washed naphthalene oil with a boiling point in the range of approximately 220° C - 300° C (428° F - 572° F). Composed primarily of naphthalene, alkyl naphthalenes and aromatic nitrogen bases.)	648-095-00-3	292-628-9	90641-05-7	J, M
Extract oils (coal), acidic, tar-base free; Methylnaphthalene oil extract residue (The extract oil with a boiling point in the range of approximately 220°C – 265°C (428°F – 509°F) from coal tar alkaline extract residue produced by an acidic wash (for example, aqueous sulphuric acid) after distillation to remove tar bases. Composed primarily of alkylnaphthalenes.)	648-096-00-9	284-901-6	84989-12-8	J, M
Distillates (coal tar), benzole fraction, distillation residues; Wash oil (A complex combination of hydrocarbons obtained from the distillation of crude benzole (high temperature coal tar). It may be a liquid with the approximate distillation range of 150° C – 300° C (302° F – 572° F) or a semi-solid or solid with a melting point up to 70° C (158° F). It is composed primarily of naphthalene and alkyl naphthalenes.)	648-097-00-4	310-165-3	121620-46-0	J, M
Creosote oil, distillate with a high boiling point; Wash oil (The distillation fraction with a high boiling point obtained from the high temperature carbonisation of bituminous coal, which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillates, removed. It is	648-100-00-9	274-565-9	70321-79-8	J, M



crystal free at approximately 5°C (41°F).)				
Extract residues (coal), creosote oil acid; Wash	648-102-00-X	310-189-4	122384-77-4	J, M
oil extract residue				
(A complex combination of hydrocarbons from				
the base-freed fraction from the distillation of				
coal tar with a boiling point in the range of				
approximately 250°C – 280°C (482°F – 536°F).				
It consists predominantly of biphenyl and				
isomeric diphenylnaphthalenes.)				
Anthracene oil, anthracene paste; Anthracene oil	648-103-00-5	292-603-2	90640-81-6	J, M
fraction				
(The anthracene-rich solid obtained by the				
crystallisation and centrifuging of anthracene oil.				
It is composed primarily of anthracene, carbazole				
and phenanthrene.)				
Anthracene oil, low anthracene content;	648-104-00-0	292-604-8	90640-82-7	J, M
Anthracene oil fraction				,
(The oil remaining after the removal, by a				
crystallisation process, of an anthracene-rich				
solid (anthracene paste) from anthracene oil. It is				
composed primarily of two, three and four				
membered aromatic hydrocarbons.)				
Residues (coal tar), anthracene oil distillate;	648-105-00-6	295-505-8	92061-92-2	J, M
Anthracene oil fraction				
(The residue from the fraction distillation of				
crude anthracene with a boiling point in the				
approximate range of 340°C – 400°C (644°F –				
752°F). Composed primarily of tri- and				
polynuclear aromatic and heterocyclic				
hydrocarbons.)				
Anthracene oil, anthracene paste, anthracene	648-106-00-1	295-275-9	91995-15-2	J, M
fraction; Anthracene oil fraction				
(A complex combination of hydrocarbons from				
the distillation of anthracene obtained by the				
crystallisation of anthracene oil from bituminous				
high temperature tar with a boiling point in the				
range of 330°C – 350°C (626°F – 662°F). It is				
composed primarily of anthracene, carbazole and				
phenanthrene.)				
Anthracene oil, anthracene paste, carbazole	648-107-00-7	295-276-4	91995-16-3	J, M
fraction; Anthracene oil fraction				
(A complex combination of hydrocarbons from				
the distillation of anthracene obtained by				
crystallisation of anthrancene oil from				
bituminous coal high temperature tar with a				
boiling point in the approximate range of 350° C				
-500 C (002 F - 000 F). It is composed				
primarity of anumation, cardazofe and	1			



phenanthrene.)				
Anthracene oil, anthracene paste, distillation	648-108-00-2	295-278-5	91995-17-4	J, M
light fractions; Anthracene oil fraction				
(A complex combination of hydrocarbons from				
the distillation of anthracene obtained by				
crystallisation of anthracene oil from bituminous				
light temperature tar with a boiling point in the				
range of approximately 290°C - 340°C (554°F -				
644°F). Composed primarily of trinuclear				
aromatic hydrocarbons and their dihydro				
derivatives.)				
Tar oils, coal, low temperature; Tar oil, high	648-109-00-8	309-889-2	101316-87-4	J, M
boiling point				
(A distillate from low-temperature coal tar.				
Composed primarily of hydrocarbons, phenolic				
compounds and aromatic nitrogen bases with a				
boiling point in the range of approximately				
160°C - 40°C (554°F - 644°F).)				
Phenols, ammonia hydroxide extract; Alkaline	648-111-00-9	284-881-9	84988-93-2	J, M
extract				
(The combination of phenols extracted, using				
isobutylacetate, from the ammonia condensed				
from the gas evolved in low-temperature (less				
than 700°C (1292°F)) destructive distillation of				
coal. It consists predominantly of a mixture of				
monohydric and dihydric phenols.)				
Distillates (coal tar), light oils, alkali extraction;	648-112-00-4	292-610-0	90640-88-3	J, M
Alkaline extract				
(The aqueous extract from carbolic oil produced				
by an alkaline wash (for example, aqueous				
sodium hydroxide). Composed primarily of the				
alkali salts of various phenolic compounds.)				
Extracts, coal tar oil alkaline; Alkaline extract	648-113-00-X	266-017-2	65996-83-0	J, M
(The extract from coal tar oil produced by an				
alkaline wash (for example, aqueous sodium				
hydroxide). Composed primarily of the alkali				
salts of various phenolic compounds.)				
Distillates (coal tar), naphthalene oils, alkaline	648-114-00-5	292-611-6	90640-89-4	J, M
extracts; Alkaline extract				
(The extract from naphthalene oil produced by				
an alkaline wash (for example, aqueous sodium				
hydroxide). Composed primarily of the alkali				
salts of various phenolic compounds.)				
Extract residues (coal), tar oil alkaline,	648-115-00-0	292-629-4	90641-06-8	J, M
carbonated, limed; Crude phenols				
(The preparation obtained by treatment of coal				
tar oil alkaline extract with carbon dioxide and				
calcium oxide. Composed primarily of CaCO ₃ ,				



Ca(OH) ₂ , Na ₂ CO ₃ and other organic and				
inorganic impurities.)		200 000 7		
1 ar acids, brown-coal, crude; Crude phenois	648-11/-00-1	309-888-7	101316-86-3	J, M
distillate Composed primarily of phenol and				
nhenol analogues)				
Tar acide brown-coal gasification: Crude	648-118-00-7	295-536-7	92062-22-1	IМ
nhenols	040-110-00-7	275-550-7	72002-22-1	5, 101
(A complex combination of organic substances				
obtained from brown coal gasification.				
Composed primarily of C ₆₋₁₀ hydroxy aromatic				
phenols and their analogues.)				
Tar acids, distillation residues; Distillate phenols	648-119-00-2	306-251-5	96690-55-0	J, M
(A residue from the distillation of crude phenol				
from coal. It consists predominantly of phenols				
with the number of carbon atoms C ₈₋₁₀ and a				
softening point in the range of 60°C - 80°C				
(140°F - 176°F).)				
Tar acids, methylphenol fraction; Distillate	648-120-00-8	284-892-9	84989-04-8	J, M
phenols				
(The fraction of tar acid rich in 3- and 4-				
temperature coal ter erude ter coide)				
Ten eside nelvellydebenel frestien. Distillete	649 121 00 2	294 902 4	94090.05.0	
henels	048-121-00-3	284-893-4	84989-03-9	J, M
The fraction of tar acids recovered by				
distillation of low-temperature coal tar crude tar				
acids, with a boiling point in the range of				
approximately 225° C - 320° C (437° F - 608° F).				
Composed primarily of polyalkylphenols.)				
Tar acids, xylenol fraction: Distillate phenols	648-122-00-9	284-895-5	84989-06-0	J. M
(The fraction of tar acids, rich in 2,4-and 2,5-				,
dimethylphenol, recovered by distillation of low-				
temperature coal tar crude tar acids.)				
Tar acids, ethylphenol fraction; Distillate	648-123-00-4	284-891-3	84989-03-7	J, M
phenols				
(The fraction of tar acids, rich in 3- and 4-				
ethylphenol, recovered by distillation of low-				
temperature coal tar crude tar acids.)				
Tar acids, 3,5-xylenol fraction; Distillate phenols	648-124-00-X	284-896-0	84989-07-1	J, M
(The fraction of tar acids, rich in 3,5-				
dimethylphenol, recovered by distillation of low-				
temperature coal tar acids.)				
Tar acids, residues, distillates, first-cut; Distillate	648-125-00-5	270-713-1	68477-23-6	J, M
pnenois (The regidue from the distillation of light		1		
(The residue from the distillation of light carbolic oil in the range of 235° C = 255° C		1		
$(481^{\circ}\text{F} - 697^{\circ}\text{F}).$				



Tar acids, cresylic fraction, residues; Distillate	648-126-00-0	271-418-0	68555-24-8	J, M
phenols				
(The residue from crude coal tar acids after				
removal of phenol, cresols, xylenols and any				
higher boiling phenols. A black solid with a				
melting point approximately 80°C (176°F).				
Composed primarily of polyalkyphenols, resin				
and inorganic salts.)				
Phenols, C ₉₋₁₁ ; Distillate phenols	648-127-00-6	293-435-2	91079-47-9	J, M
Tar acids, cresylic fraction; Distillate phenols	648-128-00-1	295-540-9	92062-26-5	J, M
(A complex combination of organic compounds				
obtained from brown coal with a boiling point in				
the range of approximately $200^{\circ}C - 230^{\circ}C$				
$(392^{\circ}\text{F} - 446^{\circ}\text{F})$. Composed primarily of phenols				
and pyridine bases.)				
Tar acids, brown-coal, C ₂ -alkylphenol fraction:	648-129-00-7	302-662-9	94114-29-1	J. M
Distillate phenols				-,
(The distillate from the acidification of alkaline				
washed lignite tar distillate with a boiling point				
in the range of approximately $200^{\circ}C - 230^{\circ}C$				
$(392^{\circ}\text{F} - 446^{\circ}\text{F})$. Composed primarily of m- and				
p-ethylphenol, cresols and xylenols.)				
Extract oils (coal) nanhthalene oils: Acid extract	648-130-00-2	292-623-1	90641-00-2	ΙM
(The aqueous extract produced by an acidic wash	010 150 00 2	272 023 1	50011 00 2	•, …
of alkali-washed nanhthalene oil Composed				
primarily of acid salts of various aromatic				
nitrogen bases (including pyridine quinoline and				
their alkyl derivatives)				
Tar bases quipoline derivatives: Distillate bases	648-131-00-8	271_020_7	68513-87-1	ΙM
Tar bases, quinoline derivatives, Distillate bases	648 132 00 3	271-020-7	70221 67 4	J, WI
Distillate bases	046-132-00-3	2/4-300-1	/0321-07-4	J, IVI
Trade costs				I M
lar bases, coal, distillation residues; Distillate	648-132-00-9	2/4-544-0	92062-29-8	J, M
Dases				
(The distillation residue remaining after the				
distillation of the neutralised, acid extracted				
base-containing tar fractions (obtained by the				
distillation of coal tars). It contains primarily				
aniline, collidines, quinoline and quinoline				
derivatives and toluidines.)			100001 (2 (<u> </u>
Hydrocarbon oils, aromatised, mixed with	648-134-00-4	309-745-9	100801-63-6	J, M
polyethylene and polypropylene, pyrolysed, light				
oil fraction; Heat treatment preparations				
(The oil obtained from the heat treatment of a				
polyethylene-polypropylene mixture with coal				
tar pitch or aromatic oils. It consists				
predominantly of benzene and its analogues with				
a boiling point in a range of approximately 70° C				
$ -120^{\circ} \cup (138^{\circ} F - 248^{\circ} F).)$				



Hydrocarbon oils, aromatised, mixed with polyethylene, pyrolysed, light oil fraction; Heat treatment preparations (The oil obtained from the heat treatment of polyethylene mixture with coal tar pitch or aromatic oils. It consists predominantly of benzene and its analogues with a boiling point in the range of 70° C – 120° C (158° F – 248° F).)	648-135-00-X	309-748-5	100801-65-8	J, M
Hydrocarbon oils, aromatised, mixed with polystyrene, pyrolysed, light oil fraction; Heat treatment preparations (The oil obtained from the heat treatment of polystyrene mixture with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologues with a boiling point in the range of approximately 70° C – 210° C (158° F – 410° F).)	648-136-00-5	309-749-0	100801-66-9	J, M
Extract residues (coal), alkali-treated tar oil, naphthalene distillation residues; Naphthalene oil extract residue (The residue obtained from chemical oil extracted after the removal of naphthalene by distillation. Composed primarily of two to four membered condensed ring aromatic hydrocarbons and aromatic nitrogen bases.)	648-137-00-0	277-567-8	736665-18-6	J, M
Creosote oil, distillate with a low boiling point; Wash oil (The distillation fraction with a low boiling point obtained from the high temperature carbonisation of bituminous coal, which is further refined to remove excess crystalline salts. It consists primarily of creosote oil from which some of the normal polynuclear aromatic salts have been removed. It is crystal-free at approximately 38°C (100°F).)	648-138-00-6	274-566-4	70321-80-1	J, M
Tar acids, cresylic, sodium salts, caustic solutions; Alkaline extract	648-139-00-1	272-361-4	68815-21-4	J, M
Extract oils (coal), tar base; Acid extract (The extract from coal tar oil alkaline extract residue produced by an aqueous acidic wash (for example, sulphuric acid) after distillation to remove naphthalene. Composed primarily of the acid salts of various aromatic nitrogen bases including pyridine, quinoline, and their alkyl derivatives.)	648-140-00-7	266-020-9	65996-86-3	J, M
Tar bases, coal, crude; Crude tar bases (The reaction preparation obtained by neutralising coal tar base extract oil with an	648-141-00-2	266-018-8	65996-84-1	J, M



alkaline aqueous solution (for example, sodium				
hydroxide), to obtain bases. Composed primarily				
of such organic bases as acridine,				
phenanthridine, pyridine, quinoline and their				
alkyl derivatives.)				
Residues (coal), liquid solvent extraction;	648-142-00-8	302-681-2	94114-46-2	М
(A cohesive powder composed of coal mineral				
matter and undissolved coal remaining after				
extraction of coal by a liquid solvent.)				
Coal liquids liquid solvent extraction solution:	648-143-00-3	302-682-8	9/11/-/7-3	М
(The properties obtained by filtration of acal	040-145-00-5	302-082-8	94114-47-5	101
(The preparation obtained by intration of coal				
mineral matter and undissolved coal from coal				
extract solution produced by digesting coal in a				
liquid solvent. A black, viscous, highly complex				
liquid combination composed primarily of				
aromatic and partly hydrogenated aromatic				
hydrocarbons, aromatic nitrogen compounds,				
aromatic sulphur compounds, phenolic and other				
aromatic oxygen compounds and their alkyl				
derivatives.)				
Coal liquids, liquid solvent extraction:	648-144-00-9	302-683-3	94114-48-4	М
(The substantially solvent-free preparation				
obtained by the distillation of the solvent from				
filtered coal extract solution produced by				
digesting coal in a liquid solvent. A black semi-				
solid composed primarily of a complex				
some composed primarily of a complex				
combination of condensed-ring aromatic				
nyurocarbons, aromatic muogen compounds,				
aromatic suppur compounds, phenolic				
compounds and other aromatic oxygen				
compounds, and their alkyl derivatives.)				
Light oil(coal), coke-oven; Crude benzole	648-147-00-5	266-012-5	65996-78-3	J
(The volatile organic liquid extracted from the				
gas evolved in the high temperature (greater than				
700°C (1292°F)) destructive distillation of coal.				
Composed primarily of benzene, toluene, and				
xylenes. May contain other minor hydrocarbon				
constituents.)				
Distillates (coal), liquid solvent extraction.	648-148-00-0	302-688-0	94114-52-0	J
primary:		202 000 0	,	°
(The liquid preparation obtained from				
condensation of vanours emitted during the				
digestion of coal in a liquid solvent with a				
hailing point in the range of anneximately 2000				
2009C (869E 5729E) Compared animality 30°C				
-500 C (80 $\text{F} - 5/2^{-1}\text{F}$). Composed primarily of				
party nydrogenated condensed-ring aromatic				
nydrocarbons, aromatic compounds containing				
nitrogen, sulphur and oxygen, and their alkyl				



derivatives with the number of carbon atoms				
predominantly in the range of C_4 - C_{14} .)				
Distillates (coal), solvent extraction, hydro-	648-149-00-6	302-689-6	94114-53-1	J
cracked				
(Distillate obtained by hydrocracking of coal				
extract or solution produced by the liquid solvent				
extraction or supercritical gas extraction process.				
Boiling point of the distillate is in the range of				
approximately 30°C - 300°C (86°F - 572°F).				
Composed primarily of aromatic, hydrogenated				
aromatic and naphthenic compounds, their alkyl				
derivatives and alkanes with the number of				
carbon atoms predominantly in the range of C ₄ -				
C14. Contains also nitrogen, sulphur and oxygen-				
containing aromatic and hydrogenated aromatic				
compounds.)				
Naphta (coal), solvent extraction, hydro-cracked	648-150-00-1	302-690-1	94114-54-2	J
(The distillate fraction obtained by				
hydrocracking of coal extract (or solution				
produced by the liquid solvent extraction or				
super critical gas extraction processes) with a				
boiling point in the range of approximately 30°C				
-180° C (86°F -356° F). Composed primarily of				
aromatic, hydrogenated aromatic and naphthenic				
compounds, their alkyl derivatives and alkanes				
with the number of carbon atoms predominantly				
in the range of C ₄ to C ₉ . Contains also nitrogen,				
sulphur and oxygen-containing aromatic and				
hydrogenated aromatic compounds.)				
Gasoline, coal solvent extraction, hydrocracked	648-151-00-7	302-691-7	94114-55-3	J
naphtha				
(Motor fuel produced by the reforming of the				
refined naphtha fraction (obtained in				
hydrocracking of coal extract, coal extract				
solution or a preparation produced by the liquid				
solvent extraction or supercritical gas extraction				
processes) with a boiling point in the range of				
approximately $30^{\circ}C - 180^{\circ}C (86^{\circ}F - 356^{\circ}F)$.				
Composed primarily of aromatic, naphthenic				
hydrocarbons, their alkyl derivatives, as well as				
alkyl hydrocarbons with the number of carbon				
atoms predominantly in the range of C ₄ to C ₉ .				
Distillates (coal), solvent extraction, hydro-	648-152-00-2	302-692-2	94114-56-4	J
cracked middle				
(Distillate obtained from the hydrocracking of				
coal extract or coal extraction solution produced				
by the liquid solvent extraction or super critical				
gas extraction processes with a boiling point in				



the range of approximately 180°C – 300°C				
$(356^{\circ}F - 572^{\circ}F)$. Composed primarily of two-				
ring aromatic, hydrogenated aromatic and				
naphthenic compounds, their alkyl derivatives				
and alkanes with the number of carbon atoms				
predominantly in the range of C_9 to C_{14} .				
Contains also nitrogen, sulphur and oxygen-				
containing compounds.)				
Distillates (coal), solvent extraction, hydro-	648-153-00-8	302-693-8	94114-57-5	J
cracked hydrogenated middle				
(Distillate from the hydrogenation of				
hydrocracked middle distillate from coal extract				
or solution produced by the liquid solvent				
extraction or supercritical gas extraction				
processes with a boiling point in the range of				
approximately 180°C – 280°C (356°F – 536°F).				
Composed primarily of hydrogenated two-ring				
carbon compounds and their alkyl derivatives				
with the number of carbon atoms predominantly				
in the range of C_9 to $C_{14.}$)				
Light oil (coal), semi-coking process: Fresh oil	648-156-00-4	292-635-7	90641-11-5	J
(The volatile organic liquid condensed from the				-
gas evolved in the low temperature (less than				
$700^{\circ}C$ (1292°C)) destructive distillation of coal				
Composed primarily of hydrocarbons with the				
number of carbon atoms predominantly C_{6-10} .)				
Extracts (petroleum) light naphthenic distillate	649-001-00-3	265-102-1	64742-03-6	
solvent	019 001 00 5	203 102 1	01712 05 0	
Extracts (netroleum) heavy paraffinic distillate	649-002-00-9	265-103-7	64742-04-7	
solvent	049-002-00-9	203-103-7	04/42-04-/	
		2(5,104.2	(4742.05.0	
Extracts (petroleum), light paraffinic distillate	649-003-00-4	265-104-2	64/42-05-8	
solvent				
Extracts (petroleum), heavy naphthenic distillate	649-004-00-X	265-111-0	64742-11-6	
solvent				
Extracts (petroleum), light vacuum gas oil	649-005-00-5	295-341-7	91995-78-7	
solvent				
Hydrocarbons C ₂₆₋₅₅ , rich in aromatic	649-006-00-0	307-753-7	97722-04-8	
compounds				
Residues (petroleum), atmospheric tower, Heavy	649-008-00-1	265-045-2	64741-45-3	
fuel oil;				
(A complex residuum from the atmospheric				
distillation of crude oil. It consists of				
hydrocarbons with the number of carbon atoms				
predominantly greater than C_{20} and with a				
boiling point above approximately 350°C				
(662°F). It is likely to contain 5% or more of 4-				
to 6-membered condensed ring aromatic				
hydrocarbons.)				



Gas oils (petroleum), heavy vacuum; Heavy fuel	649-009-00-7	265-058-3	64741-57-7	
oil				
(A complex combination of hydrocarbons				
produced by vacuum distillation of the residuum				
from atmospheric distillation of crude oil. It				
consists predominantly of hydrocarbons with the				
number of carbon atoms predominantly in the				
range of C ₂₀ -C ₅₀ and a boiling point in the range				
of approximately 350°C - 600°C (662°F -				
1112°F). It may contain 5% more of 4- to 6-				
membered condensed ring aromatic				
hydrocarbons.)				
Distillates (petroleum), heavy catalytic cracked;	649-010-00-2	265-063-0	64741-61-3	
Heavy fuel oil				
(A complex combination of hydrocarbons				
produced by the distillation of preparations from				
a catalytic cracking process. It consists of				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_{15} - C_{35} and a				
boiling point in the range of approximately				
260°C - 500°C (500°F - 932°F). May contain 5%				
or more of 4- to 6-membered condensed ring				
aromatic hydrocarbons.)				
Clarified oils (petroleum), catalytic cracked;	649-011-00-8	265-064-6	64741-62-4	
Heavy fuel oil				
(A complex combination of hydrocarbons				
produced as the residual fraction from distillation				
of the preparations from a catalytic cracking				
process. It consists of hydrocarbons with the				
number of carbon atoms predominantly greater				
than C ₂₀ and a boiling point above 350°C				
(662°F). May contain 5% or more of 4- to 6-				
membered condensed ring aromatic				
hydrocarbons.)				
Residues (petroleum), hydrocracked; Heavy fuel	649-012-00-3	265-076-1	64741-75-9	
oil				
(A complex combination of hydrocarbons				
produced as the residual fraction from distillation				
of the hydrocracking preparations. It consists of				
hydrocarbons with the number of carbon atoms				
predominantly greater than C ₂₀ and a boiling				
point above 350°C (662°F).)				
Residues (petroleum), thermal cracked; Heavy	649-013-00-9	265-081-9	64741-80-6	
fuel oil				
(A complex combination of hydrocarbons				
produced as the residual fraction from distillation				
of thermal cracking preparations. It consists				
predominantly of unsaturated hydrocarbons with				



the number of carbon atoms predominantly				
greater than C_{20} and a boiling point above 350°C				
$(662^{\circ}F)$. May contain 5% or more of 4- to 6-				
membered condensed ring aromatic				
hydrocarbons.)				
Distillates (petroleum), heavy thermal cracked;	649-014-00-4	265-082-4	64741-81-7	
Heavy fuel oil				
(A complex combination of hydrocarbons				
obtained by the distillation of thermal cracking				
preparations. It consists predominantly of				
unsaturated hydrocarbons with the number of				
carbon atoms predominantly in the range of C_{15} -				
C_{36} and a boiling point in the range of				
approximately 260° C - 480° C (500° F - 896° F). It				
may contain 5% or more or 4- to 6-membered				
condensed ring aromatic hydrocarbons.)				
Gas oils (petroleum), hydrotreated vacuum;	649-015-00-X	265-162-9	64742-59-2	
Heavy fuel oil				
(A complex combination of hydrocarbons				
obtained by treating a petroleum fraction with				
hydrogen in the presence of a catalyst. It consists				
of hydrocarbons with the number of carbon				
atoms predominantly in the range of C_{13} - C_{50} and				
a boiling point in the range of approximately				
230° C - 600°C (446°F - 1112°F). May contain				
5% or more of 4- to 6-membered condensed ring				
aromatic hydrocarbons.)				
Residues (petroleum) hydrodesulphurised	649-016-00-5	265-181-2	64742-78-5	
atmospheric tower; Heavy fuel oil				
(A complex combination of hydrocarbons				
obtained by treating an atmospheric tower				
residuum with hydrogen in the presence of a				
catalyst under conditions primarily to remove				
organic sulphur compounds. It consists of				
hydrocarbons with the number of carbon atoms				
predominantly greater than C_{20} and a boiling				
point above approximately 350°C (662°F). May				
contain 5% or more of 4- to 6-membered				
condensed ring aromatic hydrocarbons.)				
Gas oils (petroleum), hydrodesulphurised	649-017-00-0	265-189-6	64742-86-5	
vacuum; Heavy fuel oil				
(A complex combination of hydrocarbons				
obtained from a catalytic hydrodesulphurisation				
process. It consists predominantly of				
hydrocarbons with the number of carbon atoms				
predominantly C_{20} - C_{50} and a boiling point in the				
range of approximately 350°C - 600°C (662°F -				
1112°F). May contain 5% or more of 4- to 6-				



membered condensed ring aromatic				
Residues (petroleum), steam-cracked; Heavy fuel oil (A complex combination of hydrocarbons obtained as the residual fraction from the distillation of steam cracking preparations (including steam cracking to produce ethylene). It consists predominantly of unsaturated hydrocarbons with the number of carbon atoms predominantly greater than C ₁₄ and a boiling point above approximately 260°C (500°F). May contain 5% or more of 4- to 6-membered	649-018-00-6	265-193-8	64742-90-1	
condensed ring aromatic hydrocarbons.) Residues (petroleum), atmospheric distillation; Heavy fuel oil (A complex residuum from atmospheric distillation of crude oil. It consists of hydrocarbons with the number of carbon atoms predominantly greater than C ₁₁ and a boiling point above 200°C (392°F). May contain 5% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-019-00-1	269-777-3	68333-22-2	
Clarified oils (petroleum), hydrodesulphurised catalytic cracked; Heavy fuel oil (A complex combination of hydrocarbons obtained by treating catalytic cracked clarified oil with hydrogen to convert organic sulphur to hydrogen sulphide that is removed. It consists of hydrocarbons with the number of carbon atoms predominantly greater than C ₂₀ and a boiling point above 350°C (662°F). May contain 5% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-020-00-7	269-782-0	68333-26-6	
Distillates (petroleum), hydrodesulphurised intermediate catalytic cracked; Heavy fuel oil (A complex combination of hydrocarbons obtained by treating intermediate catalytic cracked distillates with hydrogen to convert organic sulphur to hydrogen sulphide that is removed. It consists of hydrocarbons with the number of carbon atoms predominantly C_{11} - C_{30} and a boiling point in the range of approximately 205° C - 450° C (401° F - 842° F). It contains a relatively large proportion of tricyclic aromatic hydrocarbons.)	649-021-00-2	269-783-6	68333-27-7	
Distillates (petroleum), hydrodesulphurised heavy catalytic cracked; Heavy fuel oil	649-022-00-8	269-784-1	68333-28-8	



(A complex combination of hydrocarbons				
distillates with hydrogen to convert ergenic				
distinates with hydrogen to convert organic				
consists of hydrogen supplied that is removed. It				
carbon atoms predominantly Cus-Cas and a				
boiling point in the range of approximately				
260° C - 500° C (500° F - 932° F). May contain 5%				
or more of 4- to 6-membered condensed ring				
aromatic hydrocarbons.)				
Fuel oil, residues-straight-run gas oils with high	649-023-00-3	270-674-0	68476-32-4	
sulphur content; Heavy fuel oil				
Fuel oil, residual; Heavy fuel oil	649-024-00-9	270-675-6	68476-33-5	
(The liquid preparation from various refinery				
streams (usually residues). The composition is				
complex and varies with the source of the crude				
oil.)				
Residues (petroleum), catalytic reformer residue	649-025-00-4	270-792-2	68478-13-7	
distillation; Heavy fuel oil				
(A complex residuum from the distillation of				
catalytic reformer fractionator residue. It boils				
above approximately 399°C (750°F).)				
Residues (petroleum), heavy coker gas oil and	649-026-00-X	270-796-4	68478-17-1	
vacuum gas oil; Heavy fuel oil				
(A complex combination of hydrocarbons				
produced as the residual fraction from the				
distillation of heavy coker gas oil and vacuum				
gas oil. It consists predominantly of				
hydrocarbons with the number of carbon atoms				
predominantly greater than C_{13} and a boiling				
point above approximately 230°C (446°F).)				
Residues (petroleum), heavy coker and light	649-027-00-5	270-983-0	68512-61-8	
vacuum; Heavy fuel oil				
(A complex combination of hydrocarbons				
produced as the residual fraction from the				
distillation of heavy coker gas oil and light				
vacuum gas oil. It consists predominantly of				
hydrocarbons with the number of carbon atoms				
predominantly greater than C_{13} and a boiling				
point above approximately 230°C (446°F).)	(10,000,00,0	070 004 (
Residues (petroleum), light vacuum; Heavy fuel oil	649-028-00-0	270-984-6	68512-62-9	
(A complex residuum from the vacuum				
distillation of the residuum from the atmospheric				
distillation of crude oil. It consists of				
hydrocarbons with the number of carbon atoms				
predominantly greater than C ₁₃ and a boiling				
point above approximately 230°C (446°F).)				



Residues (petroleum), steam-cracked light; Heavy fuel oil (A complex residuum from the distillation of the steam-cracking preparations. It consists predominantly of aromatic and unsaturated hydrocarbons with the number of carbon atoms greater than C_7 and a boiling point in the range of approximately $101^{\circ}C - 555^{\circ}C (214^{\circ}F - 1030^{\circ}F)$.)	649-029-00-6	271-013-9	68513-69-9	
A distillate oil with a viscosity from 900 SUS to 9000 SUS at the temperature of 37.7°C (100°F).)	649-030-00-1	271-384-7	68553-00-4	
Residues (petroleum), topping plant, low sulphur content; Heavy fuel oil (A complex combination of hydrocarbons with low sulphur content produced as the residual fraction from the distillation of crude oil. It is the residuum after the straight-run gasoline cut, kerosene cut and gas oil cut have been removed.)	649-031-00-7	271-763-7	68607-30-7	
Gas oils (petroleum), heavy atmospheric; Heavy fuel oil (A complex combination of hydrocarbons obtained by the distillation of crude oil. It consists of hydrocarbons with the number of carbon atoms predominantly C_7 - C_{35} and a boiling point in the range of approximately 121°C - 510°C (250°F - 950°F).)	649-032-00-2	272-184-2	68783-08-4	
Residues (petroleum), coker scrubber, condensed-ring-aromatic-containing; Heavy fuel oil (A very complex combination of hydrocarbons produced as the residual fraction from the distillation of vacuum residuum and thermal cracking preparations. It predominantly consists of hydrocarbons with the number of carbon atoms predominantly greater than C ₂₀ and a boiling point above approximately 350°C (662°F). May contain 5% or more of 4- to 6- membered condensed ring aromatic hydrocarbons.)	649-033-00-8	272-187-9	68783-13-1	
Distillates (petroleum), petroleum residues vacuum; Heavy fuel oil (A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from the atmospheric distillation of crude oil.)	649-034-00-3	273-263-4	68955-27-1	
Residues (petroleum), resinous, steam-cracked; Heavy fuel oil (A complex residuum from the distillation of	649-035-00-9	273-272-3	68955-36-2	



steam-cracked petroleum residues.)				
Distillates (petroleum), intermediate vacuum;	649-036-00-4	274-683-0	70592-76-6	
Heavy fuel oil				
(A complex combination of hydrocarbons				
produced by the vacuum distillation of the				
residuum from atmospheric distillation of crude				
oil. It consists predominantly of hydrocarbons				
with the number of carbon atoms predominantly				
C_{14} - C_{42} and a boiling point in the range of				
approximately 250°C - 545°C (482°F - 1013°F).				
May contain 5% or more of 4- to 6-membered				
condensed ring aromatic hydrocarbons.)				
Distillates (petroleum), light vacuum; Heavy fuel	649-037-00-X	247-684-6	70592-77-7	
oil				
(A complex combination of hydrocarbons				
produced by the vacuum distillation of the				
residuum from atmospheric distillation of crude				
oil. It consists predominantly of hydrocarbons				
with the number of carbon atoms predominantly				
C_{11} - C_{35} and a boiling point in the range of				
approximately 150°C - 545°C (482°F - 1013°F).)				
Distillates (petroleum), vacuum distillation;	649-038-00-5	274-685-1	70592-78-8	
Heavy fuel oil				
(A complex combination of hydrocarbons				
produced by the vacuum distillation of the				
residuum from atmospheric distillation of crude				
oil. It consists of hydrocarbons with the number				
of carbon atoms predominantly C_{11} - C_{50} and a				
boiling point in the range of approximately				
270° C - 600°C (518°F - 1112°F). May contain				
5% or more of 4- to 6-membered condensed ring				
aromatic hydrocarbons.)				
Gas oils (petroleum), hydrodesulphurised coker	649-039-00-0	285-555-9	85117-03-9	
heavy vacuum; Heavy fuel oil				
(A complex combination of hydrocarbons				
obtained by hydrodesulphurisation of heavy				
coker distillate preparation It consists				
predominantly of hydrocarbons with the number				
of carbon atoms predominantly C_{18} - C_{44} and a				
boiling point in the range of approximately				
$304^{\circ}\text{C} - 548^{\circ}\text{C} (579^{\circ}\text{F} - 1018^{\circ}\text{F})$. May contain				
5% or more of 4- to 6-membered condensed ring				
Kesidues (petroleum), steam-cracked, distillates;	049-040-00-6	292-65/-/	90669-75-3	
Heavy fuel oil				
(A complex combination of nydrocarbons				
notroloum tor by the distillation of stoom created				
performination of the distination of steam cracked				



tar. It consists predominantly of aromatic and				
other hydrocarbons, as well as organic sulphur				
compounds.)				
Residues (petroleum), light vacuum; Heavy fuel	649-041-00-1	292-658-2	90669-76-4	
oil				
(A complex combination of hydrocarbons				
produced by the vacuum distillation of the				
residuum from atmospheric distillation of crude				
oil. It predominantly consists of hydrocarbons				
with the number of carbon atoms predominantly				
greater than C_{24} and a boiling point above 390°C				
(/34°F).)				
Fuel oil, heavy, high sulphur content; Heavy fuel	649-042-00-7	295-396-7	92045-14-2	
oil				
(A complex combination of hydrocarbons				
obtained by the distillation of crude petroleum. It				
consists predominantly of aliphatic, aromatic and				
cycloaliphatic hydrocarbons with the number of				
carbon atoms predominantly higher than C_{25} and				
a boining point above approximately 400° C				
$\left[\left(732 \Gamma \right) \right]$		205 511 0		
Residues (petroleum), catalytic cracking; Heavy	649-043-00-2	295-511-0	92061-97-7	
Tuel Oll				
(A complex combination of hydrocarbons				
distillation of the establishing propagations				
It predominantly consists of hydrogerbons with				
the number of carbon atoms predominantly				
$\frac{1}{2}$ greater than C_{11} and a boiling point above				
approximately 200°C (392°F))				
Distillates (netroloum) intermediate estalutio	640 044 00 8	205 000 6	02201 50 7	
cracked thermally degraded: Heavy fuel oil	049-044-00-8	293-990-0	92201-39-7	
(A complex combination of hydrocarbons				
reduced by the distillation of catalytic cracking				
preparations which has been used as a heat				
transfer fluid. It consists predominantly of				
hydrocarbons with a boiling point in the range of				
approximately $220^{\circ}C - 450^{\circ}C$ ($428^{\circ}F - 842^{\circ}F$).				
The preparation may contain organic sulphur				
compounds.)				
Residual oils (petroleum); Heavy fuel oil	649-045-00-3	298-754-0	93821-66-0	
(A complex combination of hydrocarbons,				
sulphur compounds and metal-containing				
organic compounds obtained as the residue from				
refinery fractionation cracking processes. The				
preparation is oil with a viscosity above 2 cSt. at				
100°C.)				
Residues, steam cracked, thermally treated;	649-046-00-9	308-733-0	98219-64-8	



Heavy fuel oil (A complex combination of hydrocarbons obtained by the treatment and distillation of raw steam-cracked naphtha. It consists predominantly of unsaturated hydrocarbons with a boiling point in the range above approximately 180°C				
(356°F).) Distillates (petroleum), hydrodesulphurised full- range middle; Heavy fuel oil (A complex combination of hydrocarbons obtained by treating a petroleum stock with hydrogen. It consists predominantly of hydrocarbons with the number of carbon atoms predominantly C ₉ -C ₂₅ and a boiling point in the range of approximately 150°C - 400°C (302°F - 752°F).)	649-047-00-4	309-863-0	101316-57-8	
Residues (petroleum), catalytic reformer fractionator; Heavy fuel oil (A complex combination of hydrocarbons produced as the residual fraction from distillation of the catalytic reforming preparations. It consists predominantly of aromatic hydrocarbons with the number of carbon atoms predominantly C_{10} - C_{25} and a boiling point in the range of approximately 160°C - 400°C (320°F - 725°F). May contain 5% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-048-00-X	265-069-3	64741-67-9	
Petroleum; Crude oil (A complex combination of aliphatic, alicyclic and aromatic hydrocarbons. It may also contain small amounts of nitrogen, oxygen and sulphur compounds. This category encompasses light, medium, and heavy petroleums, as well as the oils extended from tar sands. This group does not include hydrocarbonaceous materials requiring major chemical changes for them to be used in petroleum refinery feed stocks; such as crude shale oils, upgraded shale oils and liquid coal fuels.)	649-049-00-5	232-298-5	8002-05-9	
Gases (petroleum), catalytic cracked naphtha depropaniser overhead, C ₃ -rich, acid-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of catalytic cracked hydrocarbons and treated to remove acidic impurities. It consists of hydrocarbons with the number of carbon atoms in the range of C ₂ -C ₄ (predominantly C ₃).)	649-062-00-6	270-755-0	68477-73-6	K



Gases (petroleum), catalytic cracker; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation of catalytic cracking preparations It consists predominantly of aliphatic hydrocarbons with the number of carbon atoms predominantly in the range of C_1 - C_6 .)	649-063-00-1	270-756-6	68477-74-7	K
Gases (petroleum), catalytic cracking, preparations rich in C_1 - C_5 ; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation of catalytic cracking preparations. It consists of aliphatic hydrocarbons with the number of carbon atoms in the range of C_1 - C_6 (predominantly C_1 - C_5).)	649-064-00-7	270-757-1	68477-75-8	К
Gases (petroleum), catalytic polymerised naphtha stabiliser overhead; preparations rich in C_2 - C_4 ; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation of catalytic polymerised naphtha. It consists of aliphatic hydrocarbons with the number of carbon atoms in the range of C_2 - C_6 (predominantly C_2 - C_4).)	649-065-00-2	270-758-7	68477-76-9	К
Gases (petroleum), catalytic reformer, rich in C_1 - C4; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation of catalytic reforming preparations. It consists of hydrocarbons with the number of carbon atoms in the range of C_1 - C_6 (predominantly C_1 - C_4).)	649-066-00-8	270-760-8	68477-79-2	K
Gases (petroleum), C ₃₋₅ , olefinic-paraffinic alkylation feed; Petroleum gas (A complex combination of olefinic and paraffinic hydrocarbons with the number of carbon atoms in the range of predominantly C ₃ - C ₅ which are used as alkylation feed. Room temperatures normally exceed the critical temperature of these combinations.)	649-067-00-3	270-765-5	68477-83-8	К
Gases (petroleum), rich in C ₄ ; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation of catalytic fractionation preparations It consists of aliphatic hydrocarbons with the number of carbon atoms in the range of C_3 - C_5 (predominantly C ₄).)	649-068-00-9	270-767-6	68477-85-0	К
Gases (petroleum), deethaniser overheads; Petroleum gas	649-069-00-4	270-768-1	68477-86-1	K



(A complex combination of hydrocarbons produced from distillation of the gas and gasoline fractions from the catalytic cracking process. It contains predominantly ethane and ethylene.) Gases (petroleum), deisobutaniser tower	649-070-00-X	270-769-7	68477-87-2	K
overheads; Petroleum gas (A complex combination of hydrocarbons produced by the atmospheric distillation of a butane-butylene fraction. It consists of aliphatic hydrocarbons with the number of carbon atoms predominantly C ₃ and C ₄ .)				
Gases (petroleum), depropaniser dry, propene- rich; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of preparations from the gas and gasoline fractions of a catalytic cracking process. It consists predominantly of propylene with some ethane and propane.)	649-071-00-5	270-772-3	68477-90-7	K
Gases (petroleum), depropaniser overheads; Petroleum gas (A complex combination of hydrocarbons produced by distillation of preparations from the gas and gasoline fractions of a catalytic cracking process. It consists of aliphatic hydrocarbons with the number of carbon atoms predominantly C ₂ -C ₄ .)	649-072-00-0	270-773-9	68477-91-8	К
Gases (petroleum), gas recovery plant depropaniser overheads; Petroleum gas (A complex combination of hydrocarbons obtained by fractionation of miscellaneous hydrocarbon streams. It consists of hydrocarbons with the number of carbon atoms in the range of C_1 - C_4 (predominantly propane).)	649-073-00-6	270-777-0	68477-94-1	К
Gases (petroleum), Girbatol unit feed; Petroleum gas (A complex combination of hydrocarbons that is used as the feed into the Girbatol unit to remove hydrogen sulphide. It consists of aliphatic hydrocarbons with the number of carbon atoms predominantly in the range of C_2 - C_4 .)	649-074-00-1	270-778-6	68477-95-2	K
Gases (petroleum), C ₄ -rich, hydrogen sulphide free, isomerised naphtha fractionator; Petroleum gas	649-075-00-7	270-782-8	68477-99-6	K
Tail gas (petroleum), catalytic cracked clarified oil and thermal cracked vacuum residue fractionation reflux drum; Petroleum gas (A complex combination of hydrocarbons	649-076-00-2	270-802-5	68478-21-7	K



obtained from fractionation of catalytic cracked clarified oil and thermal cracked vacuum residue.				
It consists predominantly of hydrocarbons with				
the number of carbon atoms predominantly in				
the range of C_1 - C_6 .)				
Tail gas (petroleum), catalytic cracked naphtha	649-077-00-8	270-803-0	68478-22-8	K
stabilisation absorber; Petroleum gas				
(A complex combination of hydrocarbons				
obtained from the stabilisation of catalytic				
cracked naphtha. It consists predominantly of				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_6 .)				
Tail gas (petroleum), catalytic cracker, catalytic	649-078-00-3	270-804-6	68478-24-0	Κ
reformer and hydrodesulphuriser combined				
fractionator; Petroleum gas				
(A complex combination of hydrocarbons				
obtained from the fractionation of preparations				
from catalytic cracking, catalytic reforming and				
hydrodesulphurising processes (to remove acidic				
impurities). It consists predominantly of				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C ₁ -C ₅ .)				
Tail gas (petroleum), catalytic reformed naphtha	649-079-00-9	270-806-7	68478-26-2	Κ
fractionation stabiliser; Petroleum gas				
(A complex combination of hydrocarbons				
obtained from the fractionation stabilisation of				
catalytic reformed naphtha. It consists				
predominantly of hydrocarbons with the number				
of carbon atoms predominantly in the range of				
(C_1-C_4)				
Tail gas (petroleum), saturate gas plant mixed	649-080-00-4	270-813-5	68478-32-0	K
stream, C ₄ -rich; Petroleum gas				
(A complex combination of hydrocarbons				
obtained from the fractionation stabilisation of				
straight-run naphtha, distillation tail gas and				
catalytic reformed naphtha stabiliser tail gas. It				
consists of hydrocarbons with the number of				
carbon atoms in the range of C_3 - C_6				
Teil and (actualized) activity of an and isobutane).)	(10,001,00 V	270.914.0		V
Tall gas (petroleum), saturate gas recovery plant,	049-081-00-A	2/0-814-0	084/8-33-1	ĸ
C ₁₋₂ -rich, Petroleum gas				
(A complex combination of hydrocarbons				
straight_run nanhtha, catalytic reformed nanhtha				
stabiliser tail gas. It consists predominantly of				
hydrocarbons with the number of carbon atoms				
in the range of C_1 - C_2 (predominantly methane				
and ethane).)				



Tail gas (petroleum), vacuum residues thermal cracker; Petroleum gas (A complex combination of hydrocarbons obtained from the thermal cracking of vacuum residues. It consists of hydrocarbons with the number of carbon atoms predominantly in the range of C_1 - C_5 .)	649-082-00-5	270-815-6	68478-34-2	K
Hydrocarbons, C_{3-4} -rich, petroleum distillate; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation and condensation of crude oil. It consists of hydrocarbons with the number of carbon atoms in the range of C_3 - C_5 (predominantly C_3 and C_4).)	649-083-00-0	270-990-9	68512-91-4	К
Gases (petroleum), full-range straight-run naphtha dehexaniser off; Petroleum gas (A complex combination of hydrocarbons obtained by the fractionation of the full-range straight-run naphtha. It consists of hydrocarbons with the number of carbon atoms predominantly in the range of C_2 - C_6 .)	649-084-00-6	271-000-8	68513-15-5	K
Gases (petroleum), hydrocracking depropaniser off, hydrocarbon-rich preparations; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation of hydrocracking preparations. It consists predominantly of hydrocarbons with the number of carbon atoms predominantly in the range of C ₁ -C ₄ . May contain small amounts of hydrogen and hydrogen sulphide.)	649-085-00-1	271-001-3	68513-16-6	К
Gases (petroleum), light straight-run naphtha stabiliser off; Petroleum gas (A complex combination of hydrocarbons obtained by the stabilisation of light straight-run naphtha. It consists of saturated aliphatic hydrocarbons with the number of carbon atoms predominantly in the range of C ₂ -C ₄ .)	649-086-00-7	271-002-9	68513-17-7	K
Residues (petroleum), alkylation splitter, C ₄ -rich; Petroleum gas (A complex residuum from the distillation of streams from various refinery operations. It consists of hydrocarbons with the number of carbon atoms C ₄ and C ₅ (predominantly butane) and a boiling point in the range of approximately -11.7° C to +27.8°C (11°F - 82°F).	649-087-00-2	271-010-2	68513-66-6	K
Hydrocarbons, C ₁₋₄ , sweetened; Petroleum gas (A complex combination of hydrocarbons	2649-089-00-3	271-038-5	68514-36-3	К



obtained by removing mercaptans or acidic impurities from hydrocarbons. It consists of hydrocarbons with the number of carbon atoms predominantly C_1 - C_4 and a boiling point in the range of approximately -164° C to -0.5° C (-263° F - 31° F).) Hydrocarbons, C_{1-3} ; Petroleum gas (A complex combination of hydrocarbons with the number of carbon atoms predominantly C_1 - C_3 and a boiling point in the range of	649-090-00-9	271-259-7	68527-16-2	K
approximately -164° C to -42° C (-263° F to -31° F).)		271.2(1.0	(0527 10 5	V
Petroleum gas	649-091-00-4	2/1-261-8	68527-19-5	K
Gases (petroleum), C ₁₋₅ , wet; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation of crude oil and/or the cracking of gas oil. It consists of hydrocarbons with the number of carbon atoms predominantly in the range of C ₁ -C ₅ .)	649-092-00-X	271-624-0	68602-83-5	K
Hydrocarbons, C ₂₋₄ ; Petroleum gas	649-093-00-5	271-734-9	68606-25-7	K
Hydrocarbons, C ₃ ; Petroleum gas	649-094-00-0	271-735-4	68606-26-8	K
Gases (petroleum), alkylation feed; Petroleum gas (A complex combination of hydrocarbons produced by the catalytic cracking of gas oil. It consists of hydrocarbons with the number of carbon atoms predominantly C ₃ and C ₄ .)	649-095-00-6	271-737-5	68606-27-9	К
Gases (petroleum), depropaniser bottoms fractionation off; Petroleum gas (A complex combination of hydrocarbons obtained by the fractionation of depropaniser bottoms. It consists predominantly of butane, isobutane and butadiene.)	649-096-00-1	271-742-2	68606-34-8	К
Gases (petroleum), refinery blend; Petroleum gas (A complex combination obtained from various processes. It consists of hydrogen, hydrogen sulphide and hydrocarbons with the number of carbon atoms predominantly in the range of C_1 - C_5 .)	649-097-00-7	272-183-7	68783-07-3	K
Gases (petroleum), catalytic cracking; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation of catalytic cracking preparations. It consists predominantly of hydrocarbons with the number of carbon atoms predominantly in the range of C ₃ -C ₅ .)	649-098-00-2	272-203-4	68783-64-2	К



649-100-00-1	272-871-7	68918-99-0	К
649-101-00-7	272-872-2	68919-00-6	К
649-102-00-2	272-878-5	68919-05-1	K
649-103-00-8	272-879-0	68919-06-2	K
649-104-00-3	272-882-7	68919-09-5	K
	649-100-00-1 649-101-00-7 649-102-00-2 649-103-00-8 649-103-00-8 649-103-00-3	649-100-00-1 272-871-7 649-101-00-7 272-872-2 649-102-00-2 272-878-5 649-103-00-8 272-879-0 649-104-00-3 272-882-7 649-105-00-9 272-893-7	649-100-00-1272-871-768918-99-0649-101-00-7272-872-268919-00-6649-102-00-2272-878-568919-05-1649-103-00-8272-879-068919-06-2649-104-00-3272-882-768919-09-5649-105-00-9272-893-768919-20-0

splitter overheads; Petroleum gas				
(A complex combination of hydrocarbons				
obtained by the fractionation of splitter				
preparations. It consists predominantly of C_3				
hydrocarbons.)				
Gases (petroleum), straight-run stabiliser off;	649-106-00-4	272-883-2	68919-10-8	Κ
Petroleum gas				
(A complex combination of hydrocarbons				
obtained from the fractionation of the liquid from				
the first tower used in the distillation of crude				
oil. It consists of saturated aliphatic				
hydrocarbons with the number of carbon atoms				
predominantly C_1 - C_4 .)				
Gases (petroleum), catalytic cracked naphtha	649-107-00-X	273-169-3	68952-76-1	K
debutaniser: Petroleum gas				
(A complex combination of hydrocarbons				
obtained from fractionation of catalytic cracked				
naphtha. It consists of hydrocarbons with the				
number of carbon atoms predominantly C_1 - C_4)				
Tail gas (netroleum), catalytic cracked distillate	649-108-00-5	273-170-9	68952_77_2	K
and nanothe stabiliser: Petroleum gas	047-100-00-5	275-170-7	00/32-77-2	ĸ
(A complex combination of hydrocarbons				
A complex combination of nydrocarbons				
naphtha and distillate. It consists predominantly				
of hydrocarbons with the number of earbon				
of hydrocarbons with the humber of carbon f_{1}				
atoms predominantly in the range of C_1 -C4.)			(0052 01 0	17
Tail gas (petroleum), thermal-cracked distillate,	649-109-00-0	2/3-1/5-6	68952-81-8	ĸ
gas oil and naphtha absorber; Petroleum gas				
(A complex combination of hydrocarbons				
obtained from the separation of thermal-cracked				
distillates, naphtha and gas oil. It consists				
predominantly of hydrocarbons with the number				
of carbon atoms predominantly C_1 - C_6 .)				
Tail gas (petroleum), thermal cracked	649-110-00-6	273-176-1	68952-82-9	K
hydrocarbon fractionation stabiliser, petroleum				
coking; Petroleum gas				
(A complex combination of hydrocarbons				
obtained from the fractionation stabilisation of				
thermal cracked hydrocarbons from a petroleum				
coking process. It consists of hydrocarbons with				
the number of carbon atoms predominantly C1-				
C ₆ .)				
Tail gas (petroleum), light steam-cracked,	649-111-00-1	273-265-5	68955-28-2	Κ
butadiene concentrate; Petroleum gas				
(A complex combination of hydrocarbons				
obtained by the distillation of thermal cracking				
preparations. It consists of hydrocarbons with the				
number of carbon atoms predominantly C4.)				



Gases (petroleum), straight-run naphtha catalytic reformer stabiliser overhead; Petroleum gas (A complex combination of hydrocarbons obtained by the catalytic reforming of straight- run naphtha and the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons with the number of carbon atoms predominantly C_2 - C_4 .)	649-112-00-7	273-270-2	68955-34-0	К
Hydrocarbons, C ₄ ; Petroleum gas	649-113-00-2	289-339-5	87741-01-3	K
Alkanes, C ₁₋₄ , C ₃ -rich; Petroleum gas	649-114-00-8	292-456-4	90622-55-2	K
Gases (petroleum), steam-cracker, C ₃ -rich; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation of steam cracking preparations. It consists predominantly of propylene with some propane and has a boiling point in the range of approximately -70° C to 0° C (-94° F to 32° F).)	649-115-00-3	295-404-9	92045-22-2	K
Hydrocarbons, C ₄ , steam-cracker distillate; Petroleum gas (A complex combination of hydrocarbons obtained by the distillation of steam cracking preparations. It consists predominantly of hydrocarbons with the number of carbon atoms C ₄ , predominantly of 1-butene and 2-butene. Contains also butane and isobutene with a boiling point in the range of approximately – 12°C to 5°C (10.4°F to 41°F).)	649-116-00-9	295-405-4	92045-23-3	K
Petroleum gases, liquefied, sweetened, C ₄ fraction; Petroleum gas (A complex combination of hydrocarbons obtained by subjecting a liquefied petroleum gas mix to a sweetening process to oxidise mercaptans or to remove acidic impurities. It consists predominantly of saturated and unsaturated hydrocarbons with the number of carbon atoms predominantly C ₄ .)	649-117-00-4	295-463-0	92045-80-2	K
Hydrocarbons, C ₄ , 1,3-butadiene- and isobutene- free; Petroleum gas	649-118-00-X	306-004-1	95465-89-7	K
Raffinates (petroleum), steam-cracked C ₄ fraction, cuprous ammonium acetate extraction, C ₃₋₅ saturated and unsaturated hydrocarbons, butadiene-free; Petroleum gas	649-119-00-5	307-769-4	97722-19-5	K
Gases (petroleum), amine system feed; Refinery gas (The feed gas to the amine system for removal of hydrogen sulphide. It consists primarily of hydrogen. May also contain carbon monoxide,	649-120-00-0	270-746-1	68477-65-6	K



carbon dioxide, hydrogen sulphide and aliphatic				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C ₁ -C ₅ .)				
Gases (petroleum), benzene unit	649-121-00-6	270-747-7	68477-66-7	K
hydrodesulphuriser off; Refinery gas				
(Off gases produced by the benzene unit. It				
consists primarily of hydrogen. May also contain				
carbon monoxide and hydrocarbons with the				
number of carbon atoms predominantly in the				
range of C ₁ -C ₆ , including benzene.)				
Gases (petroleum), benzene unit recycle,	649-122-00-1	270-748-2	68477-67-8	K
hydrogen-rich; Refinery gas				
(A complex combination of hydrocarbons				
obtained by recycling the gases of the benzene				
unit. It consists primarily of hydrogen with				
impurity of various other substances (carbon				
monoxide and hydrocarbons with the number of				
carbon atoms in the range of C_1 - C_6) in small				
amounts.)				
Gases (petroleum), blend oil, hydrogen-nitrogen-	649-123-00-7	270-749-8	68477-68-9	K
rich; Refinery gas				
(A complex combination of hydrocarbons				
obtained by the distillation of a blend oil. It				
consists primarily of hydrogen and nitrogen with				
impurity of various other substances (carbon				
monoxide, carbon dioxide and aliphatic				
hydrocarbons with the number of carbon atoms				
predominantly C_1 - C_5) in small amounts.)				
Gases (petroleum), catalytic reformed naphtha	649-124-00-2	270-759-2	68477-77-0	K
stripper overheads; Refinery gas				
(A complex combination of hydrocarbons				
obtained from stabilisation of catalytic reformed				
naphtha. It consists of hydrogen and saturated				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_4 .)				
Gases (petroleum), C_{6-8} catalytic reformer	649-125-00-8	270-761-3	68477-80-5	K
recycle: Refinery gas				
(A complex combination of hydrocarbons				
produced by distillation of preparations from				
catalytic reforming of C_6 - C_8 feed and recycled to				
conserve hydrogen. It consists primarily of				
hydrogen. May contain various small amounts of				
carbon monoxide, carbon dioxide, nitrogen and				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_6 .)				
Gases (petroleum). C _{6.8} catalytic reformer:	649-126-00-3	270-762-9	68477-81-6	K
Refinery gas				
(A complex combination of hydrocarbons				



produced by distillation of preparations from catalytic reforming of C_6 - C_8 feed. It consists of hydrogen and hydrocarbons with the number of carbon atoms predominantly in the range of C_1 - C_5 .)				
Gases (petroleum), C ₆₋₈ catalytic reformer recycle, hydrogen-rich; Refinery gas	649-127-00-9	270-763-4	68477-82-7	K
Gases (petroleum), C ₂ -return stream; Refinery gas (A complex combination of hydrocarbons obtained by the extraction of hydrogen from a gas stream, which consists primarily of hydrogen with small amounts of nitrogen, carbon monoxide, methane, ethane, and ethylene. It contains predominantly hydrocarbons such as methane, ethane and ethylene with small amounts of hydrogen, nitrogen and carbon monoxide.)	649-128-00-4	270-766-0	68477-84-9	K
Gases (petroleum), dry sour, gas-concentration- unit-off; Refinery gas (The complex combination of dry gases from a gas concentration unit. It consists of hydrogen, hydrogen sulphide and hydrocarbons with the number of carbon atoms predominantly in the range of C_1 - C_3 .)	649-129-00-X	270-774-4	68477-92-9	К
Gases (petroleum), gas concentration reabsorber distillation; Refinery gas (A complex combination of hydrocarbons produced by distillation of preparations from combined gas streams in a gas concentration reabsorber. It consists predominantly of hydrogen, carbon monoxide, carbon dioxide, nitrogen, hydrogen sulphide and hydrocarbons with the number of carbon atoms in the range of C_1 - C_3 .)	649-130-00-5	270-776-5	68477-93-0	K
Gases (petroleum), hydrogen absorber off; Refinery gas (A complex combination obtained by absorbing hydrogen from a hydrogen rich stream. It consists of hydrogen, carbon monoxide, nitrogen, and methane with small amounts of C ₂ hydrocarbons.)	649-131-00-0	270-779-1	68477-96-3	K
Gases (petroleum), hydrogen-rich; Refinery gas (A complex combination of gaseous substances separated from hydrocarbon-containing gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C ₂ hydrocarbons.)	649-132-00-6	270-780-7	68477-97-4	K



Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas (A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and C_1 - C_5 hydrocarbons.)	649-133-00-1	270-781-2	68477-98-5	К
Gases (petroleum), recycle, hydrogen-rich; Refinery gas (A complex combination obtained from recycled reactor gases. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, hydrogen sulphide and saturated aliphatic hydrocarbons with the number of carbon atoms predominantly C ₁ -C ₅ .)	649-134-00-7	270-783-3	68478-00-2	К
Gases (petroleum), hydrogen-rich, reformer make-up; Refinery gas (A complex combination obtained from the reformers. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons with the number of carbon atoms predominantly C ₁ -C ₅ .)	649-135-00-2	270-784-9	68478-01-3	K
Gases (petroleum), reforming hydrotreater; Refinery gas (A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane and ethane with various small amounts of hydrogen sulphide and aliphatic hydrocarbons with the number of carbon atoms predominantly in the range C ₃ -C ₅ .)	649-136-00-8	270-785-4	68478-02-4	K
Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas (A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen and methane with various small amounts of carbon monoxide and dioxide, nitrogen and saturated aliphatic hydrocarbons with the number of carbon atoms predominantly in the range of C_2 - C_5 .)	649-137-00-3	270-787-5	68478-03-5	K
Gases (petroleum), reforming hydrotreater make- up, hydrogen-rich; Refinery gas (A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons with the number of carbon atoms predominantly C_1 - C_5 .)	649-138-00-9	270-788-0	68478-04-6	K
Gases (petroleum), thermal cracking distillation;	649-139-00-4	270-789-6	68478-05-7	K

Refinery gas				
(A complex combination obtained by the				
distillation of thermal cracking preparations. It				
consists of hydrogen carbon monoxide and				
dioxide hydrogen sulphide and hydrocarbons				
with the number of carbon atoms predominantly				
C_1 - C_2				
Tail gas (netroleum) catalytic cracker	649-140-00-X	270-805-1	68478-25-1	K
refractionation absorber: Refinery gas	047-140-00-2	270-005-1	00-70-25-1	ĸ
(A complex combination of hydrocarbons				
A complex combination of nydrocarbons				
areaking propagations. It consists of hydrogen				
and hydrocarbons with the number of carbon				
and hydrocarbons with the number of carbon atoms predominantly in the range of C_1 (C_2)				
The interpretation of the set of	(40, 141, 00, 5	270 807 2	(9479 27 2	V
Tail gas (petroleum), catalytic reformed naphtha	649-141-00-5	2/0-80/-2	684/8-2/-3	К
separator; Refinery gas				
(A complex combination of hydrocarbons				
obtained from the catalytic reforming of straight-				
run naphtha. It consists of nydrogen and				
hydrocarbons with the number of carbon atoms G_{1}				
predominantly in the range of C_1 - C_6 .)				
Tail gas (petroleum), catalytic reformed naphtha	649-142-00-0	270-808-8	68478-28-4	K
stabiliser; Refinery gas				
(A complex combination of hydrocarbons				
obtained from stabilisation of catalytic reformed				
naphtha. It consists of hydrogen and				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_6 .)				
Tail gas (petroleum), cracked distillate	649-143-00-6	270-809-3	68478-29-5	K
hydrotreater separator; Refinery gas				
(A complex combination of hydrocarbons				
obtained by treating cracked distillates with				
hydrogen in the presence of a catalyst. It consists				
of hydrogen and saturated aliphatic hydrocarbons				
with the number of carbon atoms predominantly				
in the range of C_1 - C_5 .)				
Tail gas (petroleum), hydrodesulphurised	649-144-00-1	270-810-9	68478-30-8	K
straight-run naphtha separator; Refinery gas				
(A complex combination of hydrocarbons				
obtained from hydrodesulphurisation of straight-				
run naphtha. It consists of hydrogen and				
saturated aliphatic hydrocarbons with the number				
of carbon atoms predominantly in the range of				
C ₁ -C ₆ .)				
Gases (petroleum), catalytic reformed straight-	649-145-00-7	270-999-8	68513-14-4	K
run naphtha stabiliser overheads; Refinery gas				
A complex combination of hydrocarbons				
obtained from the catalytic reforming of straight-				



run naphtha followed by fractionation of the total				
effluent. It consists of hydrogen, methane, ethane				
and propane.)				
Gases (petroleum), reformer effluent high-	649-146-00-2	271-003-4	68513-18-8	K
pressure flash drum off; Refinery gas				
(A complex combination produced by the high-				
pressure flashing of the effluent from the				
reforming reactor. It consists primarily of				
hydrogen with various small amounts of				
methane, ethane, and propane.)				
Gases (petroleum), reformer effluent low-	649-147-00-8	271-005-5	68513-19-9	Κ
pressure flash drum off; Refinery gas				
(A complex combination produced by low-				
pressure flashing of the effluent from the				
reforming reactor. It consists primarily of				
hydrogen with various small amounts of				
methane, ethane, and propane.)				
Gases (petroleum), oil refinery gas distillation	649-148-00-3	271-258-1	68527-15-1	K
off: Refinery gas				
(A complex combination separated by				
distillation of a gas stream containing hydrogen.				
carbon monoxide. carbon dioxide and				
hydrocarbons with the number of carbon atoms				
in the range of C_1 - C_6 or obtained by cracking				
ethane and propane. It consists of hydrocarbons				
with the number of carbon atoms predominantly				
C_1 and C_2 , as well as nitrogen, hydrogen and				
carbon monoxide.)				
Gases (petroleum), benzene unit hydrotreater	649-149-00-9	271-623-5	68602-82-4	К
depentaniser overheads. Refinery gas		271 025 5	00002 02 1	
(A complex combination produced by treating				
the feed from the benzene unit with hydrogen in				
the presence of a catalyst followed by				
dependencial dep				
ethane and propane with various small amounts				
of nitrogen, carbon monoxide, carbon dioxide, as				
well as hydrocarbons with the number of carbon				
atoms predominantly in the range of C_1 - C_6 . It				
may contain trace amounts of benzene.)				
Gases (petroleum) secondary absorber off	649-150-00-4	271-625-6	68602-84-6	К
fluidised catalytic cracker overheads	019 150 00 1	271 025 0	00002 01 0	1
fractionator: Refinery gas				
(A complex combination produced by the				
fractionation of the overhead preparations from				
the catalytic cracking process in the fluidised				
catalytic cracker. It consists of hydrogen				
nitrogen and hydrocarbons with the number of				
carbon atoms predominantly in the range of C ₁ -				



C ₃ .)				
Petroleum preparations, refinery gases; Refinery	649-151-00-X	271-750-6	68607-11-4	K
gas				
(A complex combination which consists				
primarily of hydrogen with various small				
amounts of methane, ethane and propane.)				
Gases (petroleum), hydrocracking low-pressure	649-152-00-5	272-182-1	68783-06-2	Κ
separator; Refinery gas				
(A complex combination obtained by the liquid-				
vapour separation of the hydrocracking process				
reactor effluent. It consists of hydrogen and				
saturated hydrocarbons with the number of				
carbon atoms predominantly in the range of C_1 -				
C ₃ .)				
Gases (petroleum), refinery; Refinery gas	649-153-00-0	272-338-9	68814-67-5	K
(A complex combination obtained from various				
petroleum refining operations. It consists of				
hydrogen and hydrocarbons with the number of				
carbon atoms predominantly in the range of C_1 -				
Gases (petroleum), platformer preparations	649-154-00-6	272-343-6	68814-90-4	K
separator off; Refinery gas				
(A complex combination obtained from the				
chemical reforming of naphthenes to aromatics.				
It consists of hydrogen and saturated aliphatic				
hydrocarbons with the number of carbon atoms $f(C, C)$				
predominantly in the range of C ₂ -C ₄ .)				17
Gases (petroleum), hydrotreated sour kerosene	649-155-00-1	2/2-//5-5	68911-58-0	ĸ
(The complex combination obtained from the				
(The complex combination obtained from the				
keresone. It consists primarily of hydrogen				
ethane, and propage with various small amounts				
of nitrogen hydrogen sulphide carbon				
monoxide and hydrocarbons with the number of				
carbon atoms predominantly in the range of C_4 -				
C5.)				
Gases (netroleum) hydrotreated sour kerosene	649-156-00-7	272-776-0	68911-59-1	К
flash drum: Refinery gas	019 100 00 7	212 110 0	00711 27 1	
(A complex combination obtained from the flash				
drum of the unit treating sour kerosene with				
hydrogen in the presence of a catalyst. It consists				
primarily of hydrogen with various small				
amounts of nitrogen, carbon monoxide and				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_2 - C_5 .)				
Gases (petroleum), distillate unifiner	649-157-00-2	272-873-8	68919-01-7	K
desulphurisation stripper off; Refinery gas				

(A complex combination stripped from the liquid				
preparation of the unifiner desulphurisation				
process. It consists of hydrogen sulphide,				
methane, ethane ,and propane.)				
Gases (petroleum), fluidised catalytic cracker	649-158-00-8	272-874-3	68919-02-8	K
fractionation off; Refinery gas				
(A complex combination produced by the				
fractionation of the overhead preparation of the				
fluidised catalytic cracking process. It consists of				
hydrogen, hydrogen sulphide, nitrogen and				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_5 .)				
Gases (petroleum), fluidised catalytic cracker	649-159-00-3	272-875-9	68919-03-9	K
scrubbing secondary absorber off; Refinery gas				
(A complex combination produced by scrubbing				
the overhead gas from the fluidised catalytic				
cracker. It consists of hydrogen, nitrogen,				
methane, ethane and propane.)				
Gases (petroleum), heavy distillate hydrotreater	649-160-00-9	272-876-4	68919-04-0	K
desulphurisation stripper off; Refinery gas				
(A complex combination stripped from the liquid				
preparation of the heavy distillate hydrotreater				
desulphurisation process. It consists of hydrogen,				
hydrogen sulphide and saturated aliphatic				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_5 .)				
Gases (petroleum), platformer stabiliser off, light	649-161-00-4	272-880-6	68919-07-3	K
ends fractionation; Refinery gas				
(A complex combination obtained by the				
fractionation of the light ends of the platinum				
reactors of the platformer unit. It consists of				
hydrogen, methane, ethane and propane.)				
Gases (petroleum), pre-flash tower off, crude	649-162-00-X	272-881-1	68919-08-4	K
distillation; Refinery gas				
(A complex combination produced from the first				
tower used in the distillation of crude oil. It				
consists of hydrogen and saturated aliphatic				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_5 .)				
Gases (petroleum), tar stripper off; Refinery gas	649-163-00-5	272-884-8	68919-11-9	K
(A complex combination obtained by the				
fractionation of reduced crude oil. It consists of				
hydrogen and hydrocarbons with the number of				
carbon atoms predominantly in the range of C ₁ -				
<u>C4.)</u>				
Gases (petroleum), unifiner stripper off; Refinery	649-164-00-0	272-885-3	68919-12-0	K
gas				
(A combination of hydrogen and methane				



obtained by fractionation of the preparations				
from the unifiner unit.)				
Tail gas (petroleum), catalytic	649-165-00-6	273-173-5	68952-79-4	Κ
hydrodesulphurised naphtha separator; Refinery				
gas				
(A complex combination of hydrocarbons				
obtained by the hydrodesulphurisation of				
naphtha It consists of hydrogen, methane,				
ethane and propane.)				
Tail gas (petroleum), straight-run naphtha	649-166-00-1	273-174-0	68952-80-7	K
hydrodesulphuriser; Refinery gas				
(A complex combination obtained from the				
hydrodesulphurisation of straight-run naphtha. It				
consists of hydrogen and hydrocarbons with the				
number of carbon atoms predominantly in the				
range of C_1 - C_5 .)				
Gases (petroleum), sponge absorber off fluidised	649-167-00-7	273-269-7	68955-33-9	K
catalytic cracker and gas oil desulphuriser				
overhead fractionation; Refinery gas				
(A complex combination obtained by the				
fractionation of preparations from the fluidised				
catalytic cracker and gas oil desulphuriser				
overheads. It consists of hydrogen and				
hydrocarbons with the number of carbon atoms				
predominantly C ₁ -C ₄ .)				
Gases (petroleum), crude distillation and	649-168-00-2	273-563-5	68989-88-8	Κ
catalytic cracking; Refinery gas				
(A complex combination produced by crude				
distillation and catalytic cracking processes. It				
consists of hydrogen, hydrogen sulphide,				
nitrogen, carbon monoxide, as well as paraffinic				
and olefinic hydrocarbons with the number of				
carbon atoms predominantly in the range of C ₁ -				
C ₆ .)				
Gases (petroleum), gas oil diethanolamine	649-169-00-8	295-397-2	92045-15-3	Κ
scrubber off; Refinery gas				
(A complex combination produced by				
desulphurisation of gas oils with diethanolamine.				
It consists predominantly of hydrogen, hydrogen				
sulphide and aliphatic hydrocarbons with the				
number of carbon atoms predominantly in the				
range of C_1 - C_5 .)				
Gases (petroleum), gas oil hydrodesulphurisation	649-170-00-3	295-398-8	92045-16-4	K
effluent; Refinery gas				
(A complex combination obtained by separation				
of the liquid phase from the effluent from the				
hydrogenation reaction. It consists				
predominantly of hydrogen, hydrogen sulphide				



and aliphatic hydrocarbons with the number of				
carbon atoms predominantly in the range of C_1 -				
$C_{3.}$			02045 17 5	17
Gases (petroleum), gas oil hydrodesulphurisation	649-171-00-9	295-399-3	92045-17-5	K
purge; Refinery gas				
(A complex combination of gases obtained from				
the reformer and from the purges from the				
flydrogenation reactor. It consists predominantly				
of hydrogen and anonalic hydrocarbons with the				
number of carbon atoms predominantly in the range of C_1 C_2				
Caree (a star large) laster and the first first		205 400 7	02045 19 (V
Gases (petroleum), hydrogenator effluent flash	649-1/2-00-4	295-400-7	92045-18-6	ĸ
drum off; Refinery gas				
(A complex combination of gases obtained from				
respection. It consists prodominantly of hydrogen				
and alightic hydrocarbons with the number of				
and ampliance involocations with the number of carbon atoms predominantly in the range of C:				
C ₁ C_1				
Coses (notroloum) nonlithe steem erecking high	640 172 00 V	205 401 2	02045 10 7	V
Dases (peutoleum), napitina steam cracking ingi- pressure residual: Refinery gas	049-175-00-A	293-401-2	92045-19-7	К
(A complex combination obtained as a mixture				
of the non-condensable portions from the				
preparation of a nanothal steam cracking process				
and residual gases obtained during the				
preparation of subsequent preparations. It				
consists predominantly of hydrogen as well as				
paraffinic and olefinic hydrocarbons with the				
number of carbon atoms predominantly in the				
range of C_1 - C_5 with which natural gas may also				
be mixed.)				
Gases (petroleum), residue viscosity reduction	649-174-00-5	295-402-8	92045-20-0	К
preparations: Refinery gas			2010 20 0	
(A complex combination obtained from viscosity				
reduction of residues in a furnace. It consists				
predominantly of hydrogen sulphide, as well as				
paraffinic and olefinic hydrocarbons with the				
number of carbon atoms predominantly in the				
range of C_1 - C_5 .)				
Foots oil (petroleum), acid-treated; Foots oil	649-175-00-0	300-225-7	93924-31-3	L
(A complex combination of hydrocarbons				
obtained by treatment of Foot's oil with sulphuric				
acid. It consists predominantly of branched-chain				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C ₂₀ -C ₅₀ .)				
Foots oil (petroleum), clay-treated; Foots oil	649-176-00-6	300-226-2	93924-32-4	L
A complex combination of hydrocarbons				
obtained by treatment of Foot's oil with natural				



or modified clay in either a contacting or				
percolation process to remove the trace amounts				
of polar compounds and impurities present. It				
consists predominantly of branched-chain				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_{20} - C_{50} .)				
Gases (petroleum), C ₁₋₄ ; Petroleum gas	649-177-00-1	268-629-5	68131-75-9	Κ
(A complex combination of hydrocarbons				
obtained by the distillation of crude oil cracking				
preparations. It consists of hydrocarbons with the				
number of carbon atoms in the range of C_3 - C_4 ,				
predominantly of propane and propylene, and a				
boiling point in the range of approximately –				
51° C to -1° C (-60° F to 30° F).)				
Tail gas (petroleum), catalytic cracked distillate	649-178-00-7	269-617-2	68307-98-2	K
and catalytic cracked naphtha fractionation				
absorber: Petroleum gas				
(A complex combination of hydrocarbons				
obtained from the distillation of the preparations				
from catalytic cracked distillates and catalytic				
cracked naphtha. It consists predominantly of				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_4 .)				
Tail gas (petroleum), catalytic polymerisation	649-179-00-2	269-618-8	68307-99-3	К
naphtha fractionation stabiliser: Petroleum gas				
(A complex combination of hydrocarbons				
obtained from fractionation stabilisation				
preparations polymerisation of naphtha. It				
consists predominantly of hydrocarbons with the				
number of carbon atoms predominantly in the				
range of C_1 - C_4 .)				
Tail gas (petroleum), catalytic reformed naphtha	649-180-00-8	269-619-3	68308-00-9	К
fractionation stabiliser, hydrogen sulphide-free:		202 012 0		
Petroleum gas				
(A complex combination of hydrocarbons				
obtained from fractionation stabilisation of				
catalytic reformed naphtha and from which				
hydrogen sulphide has been removed by amine				
treatment. It consists predominantly of				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_4 .)				
Tail gas (petroleum), cracked distillate	649-181-00-3	269-620-9	68308-01-0	K
hydrotreater stripper; Petroleum gas				
(A complex combination of hydrocarbons				
obtained by treating thermal cracked distillates				
with hydrogen in the presence of a catalyst. It				
consists predominantly of saturated				
hydrocarbons with the number of carbon atoms				



predominantly in the range of C_1 - C_6)				
Tail gas (petroleum), straight-run distillate	649-182-00-9	269-630-3	68308-10-1	Κ
hydrodesulphuriser, hydrogen sulphide-free;				
Petroleum gas				
(A complex combination of hydrocarbons				
obtained from catalytic hydrodesulphurisation of				
straight run distillates and from which hydrogen				
sulphide has been removed by amine treatment.				
It consists predominantly of hydrocarbons with				
the number of carbon atoms predominantly in				
the range of C_1 - C_4 .)				
Tail gas (petroleum), gas oil catalytic cracking	649-183-00-4	269-623-5	68308-03-2	Κ
absorber; Petroleum gas				
(A complex combination of hydrocarbons				
obtained by the distillation of gas oil catalytic				
cracking preparations. It consists predominantly				
of hydrocarbons with the number of carbon				
atoms predominantly in the range of C_1 - C_5 .)				
Tail gas (petroleum), gas recovery plant;	649-184-00-X	269-624-0	68308-04-3	Κ
Petroleum gas				
(A complex combination of hydrocarbons				
obtained by the distillation of preparations from				
miscellaneous hydrocarbon streams. It consists				
predominantly of hydrocarbons with the number				
of carbon atoms predominantly in the range of				
C ₁ -C ₅ .)				
Tail gas (petroleum), gas recovery plant	649-185-00-5	269-625-6	68308-05-4	Κ
deethaniser; Petroleum gas				
(A complex combination of hydrocarbons				
obtained by the distillation of preparations from				
miscellaneous hydrocarbon streams. It consists				
predominantly of hydrocarbons with the number				
of carbon atoms predominantly in the range of				
C ₁ -C ₄ .)				
Tail gas (petroleum), hydrodesulphurised	649-186-00-0	269-626-1	68308-06-5	Κ
distillate and hydrodesulphurised naphtha				
fractionator, acid-free; Petroleum gas				
(A complex combination of hydrocarbons				
obtained from fractionation of				
hydrodesulphurised naphtha and distillate				
hydrocarbon streams and treated to remove				
acidic impurities. It consists predominantly of				
hydrocarbons with the number of carbon atoms				
predominantly in the range of C_1 - C_5 .)				
Tail gas (petroleum), hydrodesulphurised	649-187-00-6	269-627-7	68308-07-6	K
vacuum gas oil stripper, hydrogen sulphide-free;				
Petroleum gas				
(A complex combination of hydrocarbons				

bottlined from stripping station of eduly itehydrodesulphurised vacuum gas oil and fromwhich hydrogen sulphide has been removed byamine treatment. It consists predominantly ofhydrocarbons with the number of carbon atomspredominantly in the range of C1-C6.)Tail gas (petroleum), light straight-run naphtha649-188-00-1269-629-868308-09-8K
hydrodesulphurised vacuum gas on and nomwhich hydrogen sulphide has been removed by amine treatment. It consists predominantly of hydrocarbons with the number of carbon atoms predominantly in the range of C1-C6.)Tail gas (petroleum), light straight-run naphtha649-188-00-1269-629-868308-09-8K
which hydrogen supplied has been removed by amine treatment. It consists predominantly of hydrocarbons with the number of carbon atoms predominantly in the range of C1-C6.)and a construction C1-C6.and a construction C1-C6.Tail gas (petroleum), light straight-run naphtha649-188-00-1269-629-868308-09-8K
hydrocarbons with the number of carbon atoms predominantly in the range of C ₁ -C ₆ .) Tail gas (petroleum), light straight-run naphtha 649-188-00-1 269-629-8 68308-09-8 K
In year occurrent in the number of carbon dromsImage of C1-C6.)Image of C1-C6.)Tail gas (petroleum), light straight-run naphtha649-188-00-1269-629-868308-09-8K
Tail gas (petroleum), light straight-run naphtha649-188-00-1269-629-868308-09-8K
Tan gas (perioreun), ignt straight-fun napitila 049-188-00-1 209-029-8 08308-09-8 K
stabiliser hydrogen sulphide free. Petroleum gas
(A complex combination of hydrocarbons
abtained from fractionation stabilisation of light
straight-run nanhtha and from which hydrogen
sulphide has been removed by amine treatment
It consists predominantly of hydrocarbons with
the number of carbon atoms predominantly in
the range of C_1 - C_5 .)
Tail gas (petroleum) propane-propylene $649-189-00-7$ $269-631-9$ $68308-11-2$ K
alkylation feed preparation deethaniser:
Petroleum gas
(A complex combination of hydrocarbons
obtained by the distillation of propage and
propylene reaction preparations. It consists
predominantly of hydrocarbons with the number
of carbon atoms predominantly in the range of
C ₁ -C ₄ .)
Tail gas (netroleum) vacuum gas oil 649-190-00-2 269-632-4 68308-12-3 K
hydrodesulnhuriser hydrogen sulnhide-free:
Petroleum gas
(A complex combination of hydrocarbons
obtained from catalytic hydrodesulphurisation of
vacuum gas oil and from which hydrogen
sulphide has been removed by amine treatment.
It consists predominantly of hydrocarbons with
the number of carbon atoms predominantly in
the range of C_1 - C_6 .)
Gases (petroleum), catalytic cracked overheads; 649-191-00-8 270-071-2 68409-99-4 K
Petroleum gas
(A complex combination of hydrocarbons
obtained by the distillation of catalytic cracking
preparations. It consists of hydrocarbons with the
number of carbon atoms predominantly in the
range of C ₃ -C ₅ . The boiling point is in the range
of approximately -48°C to 32°C (-54°F to
90°F).)
Alkanes, C1-2; Petroleum gas 649-193-00-9 270-651-5 68475-57-0 K
Alkanes, C2-3; Petroleum gas 649-194-00-4 270-652-0 68475-58-1 K
Alkanes, C ₃₋₄ ; Petroleum gas 649-195-00-X 270-653-6 68475-59-2 K
Alkanes, C ₄₋₅ ; Petroleum gas 649-196-00-5 270-654-1 68475-60-5 K
Fuel gases; Petroleum gas 649-197-00-0 270-667-2 68476-26-6 K