

FLOTOREAGENT OXAL

TU 20.14.60-029-05766801-2016

Flotoreagent "Oxal" is a mixture of high-boiling by products of dimethyldioxane production.

"Oxal" flotation reagent of T-66 grade is used as a plasticizer in laquer and paint production.

"Oxal" flotation reagent of T-92 grade is used for plasticizers production applied in rubber goods and film

QUALITY SPECIFICATIONS				
PROPERTY	NORMAL VALUE BY GRADE			TEST METHOD
	T-66	T-92	T-94	
1. Appearance	Non-segregative fluid with color ranging from yellow to brown.	Clear, non-segregating liquid with color ranging from yellow to brown.		Acc. to 4,3 TU
2. Dimethyldioxane, % wt., max.	1,5	0,2	0,5	Acc. to 4,4 TU
3. Ester number, KOH mg / 1g within	not determined	0,5 - 4,0	0,5 - 4,0	Acc. to 4,5 TU
4. Hydroxyl groups, % wt., within	not determined	1,0 - 4,0	1,0 - 4,0	Acc. to 4,6 TU
5. Flash point in open cup, °C, min.	80	130	88	Acc. to 4,7 TU
6. Pour point, °C, max.	minus 40	minus 30	minus 38	Acc. to 4,8 TU
7. Density at 20 °C, g/cm ³ within	1,00 - 1,12			Acc. to 4,9 TU

Constituent element	Content, % wt.
3-methyl-3-butene-1-ol	0,52
4-methylenetetrahydropyran	0,07
3-methyl-2-butene-1-ol	0,13
4-methyl-2,3-dihydropyran	0,16
4,4-dimethyl-1,3-dioxane	0,96
3-methyl-1,3-butanediol	0,31
3-methoxy-3-methylbutanol	0,05
4-methyl-4-hydroxypyran	0,05
5-(2-hydroxyisopropyl)-1,3-dioxane	0,23
4,4-dimethyl-5-hydroxymethyl-1,3-dioxane	5,5
4-methyl-4-hydroxyethyl-1,3-dioxane	14,87
1-(4,4-dimethyl-1,3-dioxane-5-yl)-2,4-dioxapentane	0,48
3-(1,3-dioxane-5-yl)-3-butene-1-ol	0,25
3-(1,3-dioxane-5-yl)-2-butene-1-ol	1,07
1-(4-methyl-1,3-dioxane-4-yl)-3,5-dioxahexane	0,48
5-tert-butoxy-3-methylpentane-1,3-diol	0,26
5-((1,1-dimethyl-2-propene-1-yl)oxy)-3-methylpentane-1,3-diol	0,48
4-methyl-4-(1,3-dioxane-5-yl)-1,3-dioxane	6,75
1-(4,4-dimethyl-1,3-dioxane-5-yl)-5,5-dimethyl-2,4-dioxahexane	0,45

1-(4-methyl-1,3-dioxane-4-yl)-6,6-dimethyl-3,5-dioxahепtane	4,38
1-(4-methyl-1,3-dioxane-4-yl)-3,5,7-trioxanonane	1,11
4-(2-((1,1-dimethylprop-2-ene-1-yl)oxy)ethyl)-4-methyl-1,3-dioxane	1,37
3-tert-butoxymethyl-4-hydroxy-4-methyltetrahydropyran	2,55
9-(4-methyl-1,3-dioxane-4-yl)-5,7-dioxa-2-methyl-none-1-ene	3,74
3-methyl-3-(2-(4-methyl-1,3-dioxane-4-yl)etoxy)butane-1-ol	5,26
1-(4-methyl-1,3-dioxane-4-yl)-3,8-dimethyl-3,5,7-trioxanonine	0,87
4-methyl-4-(2-((4-methyltetrahydropyran-4-yl)oxy)ethyl)-1,3-dioxane	0,39
8-(4,4-dimethyl-1,3-dioxane-5-yl)-5,7-dioxa-2-methylloxane-2-yl	1,12
9-(4-methyl-1,3-dioxane-4-yl)-5,7-dioxa-2-methyl-nonane-2-yl	6,32
1,5-di-(4-methyl-1,3-dioxane-4-yl)-3-oxapentane	0,37
4-methyl-4-(4-(4-methyl-1,3-dioxane-4-yl)-2-oxabutoxy)-tetrahydropyran	0,27
1,5-di-(4,4-dimethyl-1,3-dioxane-5-yl)-2,4-dioxapentane	0,24
1-(4,4-dimethyl-1,3-dioxane-5-yl)-6-(4-methyl-1,3-dioxane-4-yl)-2,4-dioxahexane	4,71
1,7-di-(4-methyl-1,3-dioxane-4-yl)-3,5-dioxapentane	11,34
Unidentified constituents	22,89
Sum of hydrocarbons	100