

# POLYFLUORINATED TELOMERIC ALCOHOLS



**Manufacturer:**  
"HaloPolymer Perm", OJSC  
QMS for production is certified: ISO 9001

**CHEMICAL FORMULA:**  $H(CF_2CF_2)_nCH_2OH$  (n=1-5)

| CHEMICAL NAME                      | NO. CAS  | APPEARANCE                   |
|------------------------------------|----------|------------------------------|
| 1H,1H,3H-Tetrafluoropropan-1-ol    | 76-37-9  | Transparent yellowish liquid |
| 1H,1H,5H-Octafluoropentan-1-ol     | 355-80-6 | Transparent yellowish liquid |
| 1H,1H,7H-Dodecafluoroheptan-1-ol   | 335-99-9 | Transparent yellowish liquid |
| 1H,1H,9H-Hexadecafluorononan-1-ol  | 376-18-1 | White amorphous substance    |
| 1H,1H,11H-Eicosafluoroundecan-1-ol | 307-70-0 | White amorphous substance    |



## Main application:

Used as raw material for manufacturing of wide range of fluorinated products such as: flotation reagents, surfactants, firefighting agents, fluids for submersible pumps, etc. The end products are used like solvents in process of production of electronic devices.



## PHYSICAL-CHEMICAL PROPERTIES

| PARAMETERS                                     | n1  | n2     | n3     | n4     | n5     |
|--|---|--------|--------|--------|--------|
| Mass content of base substance, % (min)        | 99,5  | 99,5   | 95,0   | 90,0   | 65,0   |
| Molecular weight                               | 132,06  | 232,07 | 330,09 | 432,10 | 532,13 |
| Density, g/cm <sup>3</sup>                     | 1,45  | 1,67   | 1,75   | -      | -      |
| Boiling point, °C                              | 109   | 141    | 170    | 202    | 230    |
| Melting point, °C                              | -   | -65    | -14    | 69     | 102    |
| Solubility in water, g / 900g H <sub>2</sub> O | 25,8  | 2,2    | 0,07   | -      | -      |
| Solubility in organic solvents                 | Soluble in alcohols, ether, acetone, benzene and etc. |        |        |        |        |
| Viscosity at 20°C, cP                          | 5,8   | 10,8   | 51,3   | -      | -      |
| Refractive index                               | 1,3210  | 1,3178 | 1,3180 | -      | -      |
| Flash point, °C                                | 43  | 83     | 84     | 112    | -      |
| Temperature of autoignition, °C                | 437   | 478    | 401    | 359    | 336    |

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www.halopolymer.com



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## **Package:**

Telomeric alcohols n1, n2, n3 are packed into plastic drums with a capacity of 50 dm<sup>3</sup>, or into plastic bottles with a capacity of no more than 10 dm<sup>3</sup>. By agreement with customer it is allowed to pack the product into glass bottles with a capacity of no more than 10 dm<sup>3</sup>. Telomeric alcohols n4, n5 are packed into double plastic sacks, embedded into paper sacks.



## **Transportation and storage:**

The product is transported by any kind of transport in covered vehicles. Product must be stored in a covered stock, at the temperature not below -25 °C, on distance at least 1 meter from heat devices. Guaranteed storage time 1 year from the date of production.