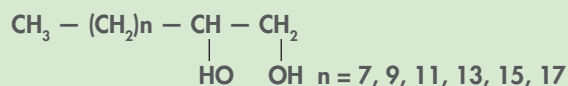




## 1, 2 Dihydroxy Alkanes

### Advanced custom carbon number diols for lubricants

#### STRUCTURE



#### DETAIL DESCRIPTION

Arkema's Vikinol® dihydroxy alkanes are available with carbon numbers ranging from C10 to C28. These diols are useful in lubrication applications where excellent solubility in wax, organic solvents, and oils is needed. Lubricant formulators can use Vikinol® alkanes as viscosity modifiers, acid scavengers, or as a base oil. Vikinol® alkanes are more polar than the corresponding mono alcohols and have a stronger tendency to form hydrogen bonds. Additional benefits include a higher melting point and boiling point than mono-alcohols, good adherence to metals, and a high flashpoint.

#### PHYSICAL AND CHEMICAL PROPERTIES

	Vikinol® 10	Vikinol® 12	Vikinol® 14
CAS Number	1119-86-4	1119-87-5	21129-09-9
Boiling Point °C	255°	154° @ 2 mm	175° @ 1.5 mm
Melting Point °C	48-50°	58-60°	62-64°
Spec. Gravity	0.8928 @ 50° C	0.8674 @ 59° C	0.8638 @ 64° C
Acid Value	0.5 Max	0.5 Max	0.5 Max
% Vicinal hydroxyl	15%	13.5%	12.5%
Peroxide Value	5 Max	5 Max	5 Max
Molecular Weight	174.3	202.3	230.4
Formula	C10H22O2	C12H26O2	C14H30O2
% Main Glycol Cut	Min. 85%	Min. 85%	Min. 85%
Appearance	White waxy solid	White waxy solid	White waxy solid
Odor	Ether -like, pleasant	Ether -like, pleasant	Ether -like, pleasant
	Vikinol® 16	Vikinol® 18	Vikinol® 20/28
CAS Number	6920-24-7	20294-76-2	NA
Boiling Point °C	197-199° @ 3 mm	213° @ 4 mm	220-250° @ 4 mm
Melting Point °C	69-70°	76-77°	78-85°
Spec. Gravity	0.8479 @ 70° C	0.8376 @ 77° C	NA
Acid Value	0.5 Max	0.5 Max	0.5 Max
% Vicinal hydroxyl	10.7%	9.67%	NA
Peroxide Value	5 Max	5 Max	5 Max
Molecular Weight	258.5	286.6	Mixture
Formula	C16H34O2	C18H38O2	C20-30H42-62O2
% Main Glycol Cut	Min. 85%	Min. 85%	NA
Appearance	White waxy solid	White waxy solid	White waxy solid
Odor	Ether -like, pleasant	Ether -like, pleasant	Ether -like, pleasant

We will be glad to consider the request for diols that are not listed here.  
Higher purity Vikinols can be available upon request.

## ENVIRONMENTAL AND SAFETY INFORMATION

BEFORE HANDLING THIS MATERIAL, READ AND UNDERSTAND THE MSDS (MATERIAL SAFETY DATA SHEET) / SDS (SAFETY DATA SHEET) FOR ADDITIONAL INFORMATION ON SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION.

The MSDS/SDS are available on our Website [www.arkema.com](http://www.arkema.com) or upon request at our Customer Service Department at +1(800) 331 7654 in the US, and at +33 (0)1 4900 8837 in Europe. Arkema believes strongly in Responsible Care® as a public commitment.

## MORE TECHNICAL INFORMATION AVAILABLE

Ask your Arkema account manager for further information on high quality Arkema additives for use in PVC, PC, PBT, ABS, PLA and other polymer systems. Arkema produces a full line of impact modifiers, processing aids and epoxidized vegetable oils. In addition, Arkema's Technical Service staff is also available to assist compounders and processors with formulation and processing advice.

### Durastrength® Impact Modifiers

Durastrength® acrylic impact modifiers deliver outstanding impact characteristics for outdoor durable applications in PVC and Engineering Resins.

### Plastistrength® Process Aids

Plastistrength® process aids offer producers a complete line of melt strengtheners and metal release agents for PVC and Engineering Resins. Plastistrength® process aids can improve fusion, surging, and aesthetics.

### Clearstrength® Impact Modifiers

Clearstrength® MBS impact modifiers are designed for extreme impact or impact/clarity combination in PVC and Engineering Resins.

### Biostrength® Additives

The Biostrength® product line of impact modifiers, melt strengtheners and metal release agents are designed to improve properties and enhance processability of polylactic acid (PLA) and other biopolymers compounds.

### Vikoflex® Epoxy Plasticizers

The Vikoflex® line of epoxy plasticizers is derived from renewable resources, like epoxidized linseed oil, soybean and tall oil fatty acid esters for applications such as PVC plasticization, acid and mercaptan scavenging, specialty coatings, adhesives & urethanes, reactive diluents, PU flexible foam and intermediates for surfactants and lube & fuel additives.

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