

# Sasol's C14-C16 Alcohols

SASOL  
reaching new frontiers



## Technical Bulletin

### Description

Sasol North America strives to offer our customers the greatest variety of alcohols to fulfill their formulation needs. When looking for hydrophobic raw materials in the C14-C16 carbon range, Sasol offers a host of products including 1-tetradecanol (myristyl alcohol), 1-hexadecanol (cetyl alcohol), branched C14-C15 alcohol blends, and even the Guerbet alcohol 2-hexadecanol. Though all of these products have similar molecular weights, the **difference in their chemical structure yields significant variation in their physical properties** providing formulators a means to develop their own unique materials.

### Properties

Typical physical properties are listed in the table below. Actual properties will vary from lot to lot.

Typical Properties	ALFOL® 14	ALFOL® 1416GC	ALFOL® 16	LIAL® 145A	ISALCHEM® 145	ISOFOL® 16
Appearance at 23°C	White Solid	White Solid	White Solid	Hazy Liquid	Clear Liquid	Clear Liquid
Melting Point, °C	37 to 39	35 to 37	45 to 49	19 to 21	-31	-15 to -21
Average Molecular Weight	214	222	242	219	219	242
Total Alcohol, wt. %	>98.5	>97.8	>98	>98	>98	>97
Alcohol Distribution, wt. %						
C12OH and Lower	<2	3.5 – 7.5	--	--	--	--
C13OH and Lower	--	--	--	<3	<5	--
C14OH	>95.5	60 – 66	<3	54 – 66	54 – 68	<2
C15OH	--	--	--	34 – 46	32 – 45	--
C16OH (*and Higher)	<2.6*	28.5 – 34.5	>96	<3.5*	<3*	>98
C18OH and Higher	--	<1.7	<3	--	--	<2
Total Branched Alcohol, wt. %	0	0	0	60	>95	100
Hydroxyl Number, mg KOH/g	255 – 264	245 – 260	225 – 235	250 – 260	252 – 258	225 – 235
Density, g/ml at 30°C	0.830	0.830	0.832	0.830	0.830	0.836
Flash Point, °C	>120	>120	>120	>125	>120	>120

### Physical State at Ambient Temperature (23°C)

We put the branching where you want it to get the melting point you need!!



ALFOL® 14    ALFOL® 1416GC    ALFOL® 16    LIAL® 145A    ISALCHEM® 145    ISOFOL® 16

### Contact Information

Technical information or samples:

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