



Description

Sasol North America Inc.'s ISOFOL® Alcohols are primary, saturated alcohols with defined branching of the carbon chain. Such alcohols are chemically described as 2-alkyl-1-alkanols and also referred to as Guerbet alcohols.

Composition

ISOFOL® Alcohols are high purity alcohols which offer excellent oxidative and color stability. They are available with even carbon chain lengths of 12 to 28. Additionally, the twin 100% linear alkyl branches of the ISOFOL® alcohols give a lower viscosity and better biodegradability than dimer alcohols derived from oxo-alcohols. The unique chemical structure of the ISOFOL® Alcohols also provides good solubility and solvency.

The various derivatives synthesized from ISOFOL® Alcohols maintain many of the beneficial properties of the parent alcohol.

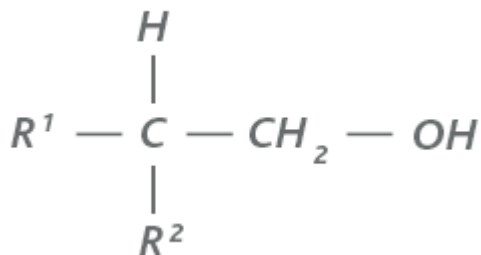
Physical Properties

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

	ISOFOL® 12	ISOFOL® 16	ISOFOL® 20	ISOFOL® 24	ISOFOL® 28
Chemical Name	2-butyl-octanol	2-hexyl-decanol	2-octyl-dodecanol	2-decyl-tetradecanol	2-dodecyl-hexadecanol
Appearance	clear, colorless liquid	clear, colorless liquid	clear, colorless liquid	clear, colorless liquid	white solid
Purity, %	> 97	>97	> 97	> 97	> 90
Molecular Weight, g/mol	~186	~242	~298	~354	~410
Hydroxyl Number, mg KOH/g	286-305	225-235	184-190	154-160	125-140
Carbonyl Number, mg KOH/g	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Water, wt.%	0.1	0.1	0.1	0.1	0.1
Colour, Hazen	< 20	< 20	< 20	< 20	< 20
Density, g/ml @ 20°C	0.833	0.836	0.838	0.842	0.830 (40°C)
Viscosity, mPa-s	23 @ 20°C	38 @ 20°C	60 @ 20°C	86 @ 20°C	40 @ 40°C
Boiling Range, °C/mbar	145-149/33	193-197/33	234-238/33	271-275/33	—
Pour Point. °C (°F)	-70 (-94)	<-65 (-85)	-21 (-5.8)	- (-)	- (-)
Flash Point, °C	120 (248)	156 (313)	180 (356)	230 (446)	240 (464)
CAS Number	3913-02-8	2425-77-6	5333-42-6	58670-89-6	72388-18-2
EINECS Number	223-470-0	219-370-1	226-242-9	261-385-0	276-627-0
TSCA Listed	Yes	Yes	Yes	Yes	Yes
MITI-CODE	2-217	2-217	2-217	2-217	2-217



General ISO FOL® Alcohol Structure



Applications

ISO FOL® Alcohols and their derivatives are used as raw materials and intermediates in many application areas including:

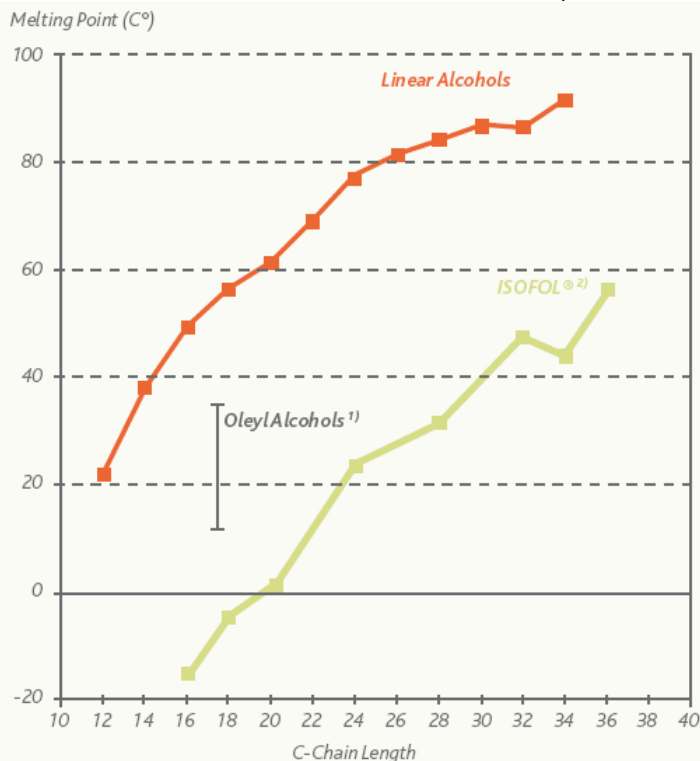
Lubricants – converted to esters having improved hydrolytic stability and lower pour points than linear counterparts

Cosmetics and Pharmaceuticals – an odorless ingredient of creams, lotions, and ointments

Personal Care – sulfate derivative gives low foaming cleansing

Melting Point

ISO FOL® Alcohols generally exhibit melting points equal to linear alcohols that are half their carbon chain length. (MP of linear C12 = MP of ISO FOL® 24 Alcohol)



1) End of melting range, Iodine number 45-96mg 1/100mg
 2) End of melting range

Don't see what you are looking for?

Sasol North America also offers heavier Guerbet alcohols such as the C32 alcohol, 2-tetradecyl-octadecanol. In addition, our portfolio includes a wide range of alcohols, alcohol alkoxylates, and other alcohol derivatives. Please contact us for information on creating your own personalized product.

Contact Information

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For sales and pricing information contact:

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For detailed safety and handling information regarding these products, please refer to the respective Sasol North America Material Safety Data Sheet.