



### Description

Sasol North America Inc.'s ISOCARB® Acids are primary, saturated carboxylic acids with defined branching of the carbon chain. These products are derived from the oxidation of Guerbet alcohols.

### Composition

ISOCARB® Acids are >95% pure and offer excellent oxidative and color stability. They are available with even carbon chain lengths of 12 to 24. The specific structure provides unique polarity and aggregation state properties which yield advantageous solubility and solvent characteristics. Additionally, the twin 100% linear alkyl chains of the ISOCARB® Acids give a lower viscosity than branched acids produced by alternative production processes.

The various derivatives synthesized from ISOCARB® Acids maintain many of the beneficial properties of the parent acid.

### Contact Information

For technical information or samples:

**Sasol North America**  
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[techinfo@us.sasol.com](mailto:techinfo@us.sasol.com)

For sales and pricing information contact a sales representative at:

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2201 Old Spanish Trail  
Westlake, Louisiana 70669  
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[salesinfo@us.sasol.com](mailto:salesinfo@us.sasol.com)

### Don't see what you are looking for?

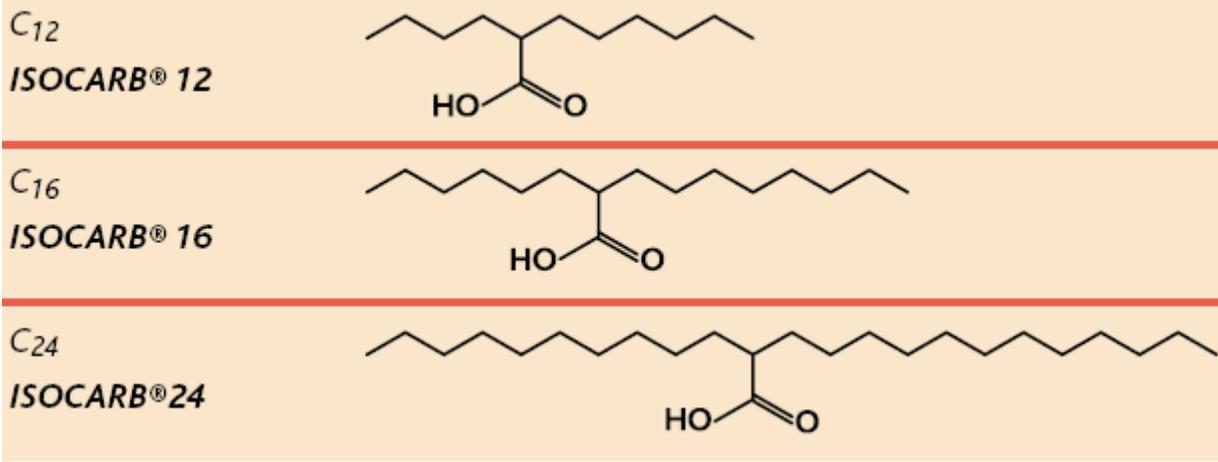
Sasol North America also offers heavier Guerbet acids such as the C28 Guerbet acid. In addition, our portfolio includes a wide range of alcohols, alcohol alkoxylates, and other alcohol derivatives. Please contact us for information on creating your own personalized product.

### Physical Properties

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

	ISOCARB® 12	ISOCARB® 16	ISOCARB® 24
Chemical Name	2-butyl-octanoic acid	2-hexyl-decanoic acid	2-decyl-tetradecanoic acid
Appearance	clear, colorless liquid	clear, colorless liquid	white solid
Purity, %	> 96	>96	> 95
Molecular Weight, g/mol	200	256	368
Acid Number, mg KOH/g	272-280	210-220	144-152
Ester Number, mg KOH/g	< 0.1	< 0.1	< 0.1
Water, wt. %	0.01	0.01	0.01
Colour, Hazen	20	40	50
Density, g/ml @ 20°C	0.793	0.808	0.816
Viscosity, mPa·s	27 @ 20°C	62 @ 20°C	21 @ 60°C
Boiling Range, °C/mbar	130-134/4	215-223/3	220-234/4
Melting Range, °C (°F)	-13 to -9 (8 to 16)	16 to 18 (61 to 64)	46 to 50 (115 to 122)
Flash Point, °C (°F)	157 (315)	170 (338)	234 (453)
CAS Number	27610-92-0	25354-97-6	93778-52-0
EINECS Number	248-570-1	246-885-9	298-190-5
TSCA Listed	Yes	Yes	Yes
MITI-CODE	2-608	2-608	2-608

**Guerbet Acid Structure of the ISOCARB® Acids**

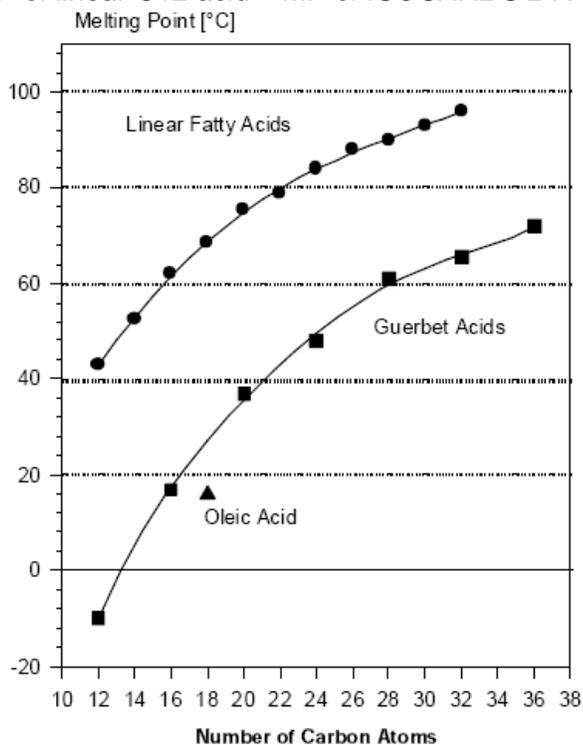


ISOCARB® 12, 16, and 24 Acids are available in ton quantities.

**Melting Point of Fatty Acids**

ISOCARB® Acids generally exhibit melting points equal to linear acids that are half their carbon chain length.

(MP of linear C12 acid ≈ MP of ISOCARB® 24 Acid)



**Applications**

ISOCARB® Acids and their derivatives are used as raw materials and intermediates in many specialized applications.

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

**Personal Care** – an additive in shaving foam formulations to provide a special texture and allow the formulation of clear products

**Metalworking** – as ingredients of water soluble, water miscible, and neat oil metal processing fluids

They can also be used as an odorless substitute for linear fatty acids in many applications.

Some of the **chemistries** ISOCARB® Acids have been utilized in include:

- Esterification
- Alkoxylation
- Conversion to Betaines
- Amidation

ISOCARB® is a registered trademarks of Sasol Germany GmbH

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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.