

# TECHNICAL BULLETIN



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## EFF SUPPRESS

### EFFLORESCENCE SUPPRESSOR FOR CONCRETE FORMS

#### MATERIAL & FUNCTION

Oleic acid is a mono-unsaturated omega-9 fatty acid found in various animal and vegetable sources. It has the formula  $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH}$ . The trans-isomer of oleic acid is called elaidic acid.

Pure oleic acid has the properties tabulated below but commercial oleic acid is generally a mixture with predominantly oleic acid as the main constituent, and generally obtained from natural vegetable oils.

The isomers also present will include C18 chain lengths with trans double bonds as well as the usual cis double bonds, and in positions other than at carbon number 9. In addition C20, C18, C16 and C14 are other potential constituents, with or without double bonds.

Commercial oleic acid will generally have a melting point of about 14 – 16 degrees C so that it is normal for this to turn to a semisolid during winter months

#### PROPERTIES

### *C<sub>18:1</sub>* *Oleic acid* *(9c-Octadecenoic)*

CAS number	112-80-1
molecular formula	$\text{C}_{18}\text{H}_{34}\text{O}_2$
molecular weight	282.47
Melting point °C	13.5(alpha),16.3(beta)
Boiling point °C (mm Hg)	334.7 (400)
Density $D_4^t$ (°C)	0.8634 (60)
Viscosity mPa·s (°C)	27.64 (25), 4.85 (90)
Refractive Index $n_D^t$ (°C)	1.4449 (60)
Specific Heat J/g (°C)	2.046 (50)

#### APPLICATIONS

As an excipient in pharmaceuticals, oleic acid is used as an emulsifying or solubilizing

agent in aerosol products

### **DIRECTION FOR USE**

Add 0.5L of EFF SUPPRESS per 100 kg of Concrete Mix

### **CAUTION**

*Avoid contact with skin and eyes.*

### **PACKAGING**

5L bottle and 25 L cubes

### **IMPORTANT NOTICE TO CUSTOMER**

*Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product which is proven defective. They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.***

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