

# (2E,6E)-3,7,11-Trimethyldodeca-2,6,10-trien-1-yl Stearate

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

InChI=1S/C33H60O2/c1-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-27-33(34)35-29-28-

YQPQEVWUUVTRQA-XPYMXISMSA-N

C33H60O2

CCCCCCCCCCCCCCCCC(=O)OCC=C(C)CCC=C(C)CCC=C(C)C

488.83

69624-82-4

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 208.07  | kJ/mol  | Joback Method  |
| hf            | -646.96 | kJ/mol  | Joback Method  |
| hfus          | 80.69   | kJ/mol  | Joback Method  |
| hvap          | 98.32   | kJ/mol  | Joback Method  |
| log10ws       | -12.06  |         | Crippen Method |
| logp          | 11.210  |         | Crippen Method |
| mcvol         | 470.370 | ml/mol  | McGowan Method |
| pc            | 575.36  | kPa     | Joback Method  |
| rinpol        | 3446.50 |         | NIST Webbook   |
| rinpol        | 3446.50 |         | NIST Webbook   |
| tb            | 1042.85 | K       | Joback Method  |
| tc            | 1297.20 | K       | Joback Method  |
| tf            | 476.71  | K       | Joback Method  |
| vc            | 1.851   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value   | Unit    | Temperature [K] | Source        |
|---------------|---------|---------|-----------------|---------------|
| cpg           | 1666.03 | J/mol×K | 1042.85         | Joback Method |
| cpg           | 1693.36 | J/mol×K | 1085.24         | Joback Method |
| cpg           | 1719.29 | J/mol×K | 1127.63         | Joback Method |
| cpg           | 1744.06 | J/mol×K | 1170.02         | Joback Method |
| cpg           | 1767.87 | J/mol×K | 1212.42         | Joback Method |
| cpg           | 1790.93 | J/mol×K | 1254.81         | Joback Method |
| cpg           | 1813.45 | J/mol×K | 1297.20         | Joback Method |

# Sources

|                        |                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                     |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                             |
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                         |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                         |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C69624824&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C69624824&amp;Units=SI</a> |

# Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>rlnpol:</b>  | Non-polar retention indices                     |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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