

# Glutaric acid, 2-methoxyphenyl nonyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C21H32O5/c1-3-4-5-6-7-8-11-17-25-20(22)15-12-16-21(23)26-19-14-10-9-13-1

HLSODGABIADTPZ-UHFFFAOYSA-N

C21H32O5

CCCCCCCCCOC(=O)CCCC(=O)Oc1ccccc1OC

364.48

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -344.12 | kJ/mol  | Joback Method  |
| hf            | -873.53 | kJ/mol  | Joback Method  |
| hfus          | 50.56   | kJ/mol  | Joback Method  |
| hvap          | 86.00   | kJ/mol  | Joback Method  |
| log10ws       | -5.79   |         | Crippen Method |
| logp          | 5.065   |         | Crippen Method |
| mcvol         | 303.740 | ml/mol  | McGowan Method |
| pc            | 1237.22 | kPa     | Joback Method  |
| rinpol        | 2721.00 |         | NIST Webbook   |
| rinpol        | 2721.00 |         | NIST Webbook   |
| tb            | 886.54  | K       | Joback Method  |
| tc            | 1089.96 | K       | Joback Method  |
| tf            | 531.92  | K       | Joback Method  |
| vc            | 1.169   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 966.74    | J/mol×K | 886.54          | Joback Method |
| cpg           | 982.57    | J/mol×K | 920.44          | Joback Method |
| cpg           | 997.11    | J/mol×K | 954.35          | Joback Method |
| cpg           | 1010.40   | J/mol×K | 988.25          | Joback Method |
| cpg           | 1022.43   | J/mol×K | 1022.15         | Joback Method |
| cpg           | 1033.23   | J/mol×K | 1056.05         | Joback Method |
| cpg           | 1042.80   | J/mol×K | 1089.96         | Joback Method |
| dvisc         | 0.0003742 | Pa×s    | 531.92          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0002078 | Pa×s | 591.02 | Joback Method |
| dvisc | 0.0001284 | Pa×s | 650.13 | Joback Method |
| dvisc | 0.0000860 | Pa×s | 709.23 | Joback Method |
| dvisc | 0.0000612 | Pa×s | 768.33 | Joback Method |
| dvisc | 0.0000458 | Pa×s | 827.44 | Joback Method |
| dvisc | 0.0000356 | Pa×s | 886.54 | Joback Method |

## Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358667&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358667&amp;Units=SI</a> |
| <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>                     |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>dvisc:</b>   | Dynamic viscosity                               |
| <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>rinpol:</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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