# Glutaric acid, 2-methylpent-3-yl 2,6-dimethoxyphenyl ester

**Inchi:** InChI=1S/C19H28O6/c1-6-14(13(2)3)24-17(20)11-8-12-18(21)25-19-15(22-4)9-7-10-16(1

**InchiKey:** SVDRNYGDYQQHQM-UHFFFAOYSA-N

**Formula:** C19H28O6

**SMILES:** CCC(OC(=O)CCCC(=O)Oc1c(OC)cccc1OC)C(C)C

**Mol. weight [g/mol]:** 352.42

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -480.47 | kJ/mol | Joback Method |
| hf | -986.50 | kJ/mol | Joback Method |
| hfus | 39.13 | kJ/mol | Joback Method |
| hvap | 83.84 | kJ/mol | Joback Method |
| log10ws | -4.52 | | Crippen Method |
| logp | 3.757 | | Crippen Method |
| mcvol | 281.430 | ml/mol | McGowan Method |
| pc | 1405.90 | kPa | Joback Method |
| rinpol | 2429.00 | | NIST Webbook |
| tb | 867.30 | K | Joback Method |
| tc | 1073.16 | K | Joback Method |
| tf | 514.13 | K | Joback Method |
| vc | 1.063 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 877.30 | J/mol×K | 867.30 | Joback Method |
| cpg | 892.33 | J/mol×K | 901.61 | Joback Method |
| cpg | 906.04 | J/mol×K | 935.92 | Joback Method |
| cpg | 918.41 | J/mol×K | 970.23 | Joback Method |
| cpg | 929.45 | J/mol×K | 1004.54 | Joback Method |
| cpg | 939.12 | J/mol×K | 1038.85 | Joback Method |
| cpg | 947.44 | J/mol×K | 1073.16 | Joback Method |
| dvisc | 0.0003477 | Pa×s | 514.13 | Joback Method |
| dvisc | 0.0001876 | Pa×s | 572.99 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0001136 | Pa×s | 631.85 | Joback Method |
| dvisc | 0.0000749 | Pa×s | 690.71 | Joback Method |
| dvisc | 0.0000527 | Pa×s | 749.58 | Joback Method |
| dvisc | 0.0000391 | Pa×s | 808.44 | Joback Method |
| dvisc | 0.0000302 | Pa×s | 867.30 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U392000&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

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