# Sebacic acid, 2,6-dimethoxyphenyl hexyl ester

**Inchi:** InChI=1S/C24H38O6/c1-4-5-6-13-19-29-22(25)17-11-9-7-8-10-12-18-23(26)30-24-20(27
**InchiKey:** AXBIZMPXDYPLPE-UHFFFAOYSA-N
**Formula:** C24H38O6
**SMILES:** CCCCCCOC(=O)CCCCCCCCC(=O)Oc1c(OC)cccc1OC
**Mol. weight [g/mol]:** 422.55

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -433.49 | kJ/mol | Joback Method |
| hf | -1079.14 | kJ/mol | Joback Method |
| hfus | 59.13 | kJ/mol | Joback Method |
| hvap | 95.75 | kJ/mol | Joback Method |
| log10ws | -6.75 | | Crippen Method |
| logp | 5.853 | | Crippen Method |
| mcvol | 351.880 | ml/mol | McGowan Method |
| pc | 999.54 | kPa | Joback Method |
| rinpol | 3143.00 | | NIST Webbook |
| rinpol | 3143.00 | | NIST Webbook |
| tb | 982.58 | K | Joback Method |
| tc | 1203.34 | K | Joback Method |
| tf | 600.48 | K | Joback Method |
| vc | 1.355 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1177.42 | J/mol×K | 982.58 | Joback Method |
| cpg | 1192.84 | J/mol×K | 1019.37 | Joback Method |
| cpg | 1206.49 | J/mol×K | 1056.17 | Joback Method |
| cpg | 1218.36 | J/mol×K | 1092.96 | Joback Method |
| cpg | 1228.45 | J/mol×K | 1129.75 | Joback Method |
| cpg | 1236.77 | J/mol×K | 1166.55 | Joback Method |
| cpg | 1243.32 | J/mol×K | 1203.34 | Joback Method |
| dvisc | 0.0001641 | Pa×s | 600.48 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0000941 | Pa×s | 664.16 | Joback Method |
| dvisc | 0.0000595 | Pa×s | 727.85 | Joback Method |
| dvisc | 0.0000405 | Pa×s | 791.53 | Joback Method |
| dvisc | 0.0000292 | Pa×s | 855.21 | Joback Method |
| dvisc | 0.0000220 | Pa×s | 918.90 | Joback Method |
| dvisc | 0.0000172 | Pa×s | 982.58 | Joback Method |

# Sources

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|---|---|
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U354754&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |