# 1,2-Cyclohexanedicarboxylic acid, 2,6-dimethoxyphenyl ethyl ester

**Inchi:** InChI=1S/C18H24O6/c1-4-23-17(19)12-8-5-6-9-13(12)18(20)24-16-14(21-2)10-7-11-15(1

**InchiKey:** GQZIIZYLEUIBCD-UHFFFAOYSA-N

**Formula:** C18H24O6

**SMILES:** CCOC(=O)C1CCCCC1C(=O)Oc1c(OC)cccc1OC

**Mol. weight [g/mol]:** 336.38

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -467.27 | kJ/mol | Joback Method |
| hf | -921.32 | kJ/mol | Joback Method |
| hfus | 36.49 | kJ/mol | Joback Method |
| hvap | 82.51 | kJ/mol | Joback Method |
| log10ws | -3.65 | | Crippen Method |
| logp | 2.979 | | Crippen Method |
| mcvol | 256.480 | ml/mol | McGowan Method |
| pc | 1714.61 | kPa | Joback Method |
| rinpol | 2431.00 | | NIST Webbook |
| rinpol | 2431.00 | | NIST Webbook |
| tb | 860.18 | K | Joback Method |
| tc | 1081.40 | K | Joback Method |
| tf | 536.00 | K | Joback Method |
| vc | 0.952 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 816.22 | J/mol×K | 860.18 | Joback Method |
| cpg | 831.96 | J/mol×K | 897.05 | Joback Method |
| cpg | 846.05 | J/mol×K | 933.92 | Joback Method |
| cpg | 858.48 | J/mol×K | 970.79 | Joback Method |
| cpg | 869.22 | J/mol×K | 1007.66 | Joback Method |
| cpg | 878.25 | J/mol×K | 1044.53 | Joback Method |
| cpg | 885.54 | J/mol×K | 1081.40 | Joback Method |
| dvisc | 0.0003969 | Pa×s | 536.00 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0002462 | Pa×s | 590.03 | Joback Method |
| dvisc | 0.0001655 | Pa×s | 644.06 | Joback Method |
| dvisc | 0.0001183 | Pa×s | 698.09 | Joback Method |
| dvisc | 0.0000888 | Pa×s | 752.12 | Joback Method |
| dvisc | 0.0000692 | Pa×s | 806.15 | Joback Method |
| dvisc | 0.0000557 | Pa×s | 860.18 | Joback Method |

# Sources

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|---|---|
| **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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U339929&Units=SI |

# Legend

| | |
|---|---|
| **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 |