# 4-Methoxy-2-(3-methyloxiranyl)-phenyl tiglate

**Other names:** 4-Methoxy-2-(3-methyloxiranyl)phenyl tiglate (=epoxypseudoisoeugenyl tiglate)
**Inchi:** InChI=1S/C15H18O4/c1-5-9(2)15(16)19-13-7-6-11(17-4)8-12(13)14-10(3)18-14/h5-8,10,
**InchiKey:** SRKAZFSLCLSHPY-WEVVVXLNSA-N
**Formula:** C15H18O4
**SMILES:** CC=C(C)C(=O)Oc1ccc(OC)cc1C1OC1C
**Mol. weight [g/mol]:** 262.30

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -131.76 | kJ/mol | Joback Method |
| hf | -488.47 | kJ/mol | Joback Method |
| hfus | 37.92 | kJ/mol | Joback Method |
| hvap | 68.30 | kJ/mol | Joback Method |
| log10ws | -3.79 | | Crippen Method |
| logp | 3.027 | | Crippen Method |
| mcvol | 202.470 | ml/mol | McGowan Method |
| pc | 2098.42 | kPa | Joback Method |
| ripol | 2926.00 | | NIST Webbook |
| ripol | 2926.00 | | NIST Webbook |
| ripol | 2926.00 | | NIST Webbook |
| ripol | 2926.00 | | NIST Webbook |
| tb | 711.01 | K | Joback Method |
| tc | 929.75 | K | Joback Method |
| tf | 425.89 | K | Joback Method |
| vc | 0.767 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 569.64 | J/mol×K | 711.01 | Joback Method |
| cpg | 585.49 | J/mol×K | 747.47 | Joback Method |
| cpg | 600.34 | J/mol×K | 783.92 | Joback Method |
| cpg | 614.20 | J/mol×K | 820.38 | Joback Method |
| cpg | 627.14 | J/mol×K | 856.84 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 639.18 | J/mol×K | 893.29 | Joback Method |
| cpg | 650.37 | J/mol×K | 929.75 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R418323&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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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