# Hexacosane-6,8-dione

**Inchi:** InChI=1S/C26H50O2/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-19-21-23-26(28)24-25(2
**InchiKey:** XANVRSXHSSENGP-UHFFFAOYSA-N
**Formula:** C26H50O2
**SMILES:** CCCCCCCCCCCCCCCCCCC(=O)CC(=O)CCCCC
**Mol. weight [g/mol]:** 394.67

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -89.80 | kJ/mol | Joback Method |
| hf | -805.13 | kJ/mol | Joback Method |
| hfus | 66.29 | kJ/mol | Joback Method |
| hvap | 86.96 | kJ/mol | Joback Method |
| log10ws | -9.27 | | Crippen Method |
| logp | 8.747 | | Crippen Method |
| mcvol | 380.340 | ml/mol | McGowan Method |
| pc | 776.77 | kPa | Joback Method |
| rinpol | 2888.20 | | NIST Webbook |
| tb | 902.02 | K | Joback Method |
| tc | 1106.23 | K | Joback Method |
| tf | 482.64 | K | Joback Method |
| vc | 1.504 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1279.48 | J/mol×K | 902.02 | Joback Method |
| cpg | 1301.28 | J/mol×K | 936.06 | Joback Method |
| cpg | 1321.76 | J/mol×K | 970.09 | Joback Method |
| cpg | 1341.00 | J/mol×K | 1004.13 | Joback Method |
| cpg | 1359.06 | J/mol×K | 1038.16 | Joback Method |
| cpg | 1376.00 | J/mol×K | 1072.20 | Joback Method |
| cpg | 1391.90 | J/mol×K | 1106.23 | Joback Method |
| dvisc | 0.0009082 | Pa×s | 482.64 | Joback Method |
| dvisc | 0.0003874 | Pa×s | 552.54 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0002001 | Pa×s | 622.43 | Joback Method |
| dvisc | 0.0001181 | Pa×s | 692.33 | Joback Method |
| dvisc | 0.0000768 | Pa×s | 762.23 | Joback Method |
| dvisc | 0.0000536 | Pa×s | 832.12 | Joback Method |
| dvisc | 0.0000396 | Pa×s | 902.02 | 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=U413389&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 |

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