# Isophthalic acid, cis-hex-3-enyl decyl ester

**Inchi:** InChI=1S/C24H36O4/c1-3-5-7-9-10-11-12-14-19-28-24(26)22-17-15-16-21(20-22)23(25)
**InchiKey:** IUYZOSIYVUGSCK-VURMDHGXSA-N
**Formula:** C24H36O4
**SMILES:** CCC=CCCOC(=O)c1cccc(C(=O)OCCCCCCCCCC)c1
**Mol. weight [g/mol]:** 388.54

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -133.64 | kJ/mol | Joback Method |
| hf | -686.01 | kJ/mol | Joback Method |
| hfus | 57.34 | kJ/mol | Joback Method |
| hvap | 90.23 | kJ/mol | Joback Method |
| log10ws | -7.67 | | Crippen Method |
| logp | 6.497 | | Crippen Method |
| mcvol | 335.840 | ml/mol | McGowan Method |
| pc | 1066.57 | kPa | Joback Method |
| rinpol | 2847.00 | | NIST Webbook |
| tb | 936.92 | K | Joback Method |
| tc | 1148.38 | K | Joback Method |
| tf | 538.42 | K | Joback Method |
| vc | 1.300 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1091.52 | J/mol×K | 936.92 | Joback Method |
| cpg | 1108.15 | J/mol×K | 972.16 | Joback Method |
| cpg | 1123.53 | J/mol×K | 1007.41 | Joback Method |
| cpg | 1137.72 | J/mol×K | 1042.65 | Joback Method |
| cpg | 1150.76 | J/mol×K | 1077.89 | Joback Method |
| cpg | 1162.71 | J/mol×K | 1113.14 | Joback Method |
| cpg | 1173.61 | J/mol×K | 1148.38 | Joback Method |
| dvisc | 0.0003558 | Pa×s | 538.42 | Joback Method |
| dvisc | 0.0001828 | Pa×s | 604.84 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0001072 | Pa×s | 671.25 | Joback Method |
| dvisc | 0.0000692 | Pa×s | 737.67 | Joback Method |
| dvisc | 0.0000480 | Pa×s | 804.09 | Joback Method |
| dvisc | 0.0000352 | Pa×s | 870.50 | Joback Method |
| dvisc | 0.0000270 | Pa×s | 936.92 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U356704&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 |
| **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 |