

Succinic acid, di(cis-pent-2-en-1-yl) ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C14H22O4/c1-3-5-7-11-17-13(15)9-10-14(16)18-12-8-6-4-2/h5-8H,3-4,9-12H2 |
| InchiKey: | WWMHWBSNTZMUNX-SFECMWDFSA-N |
| Formula: | C14H22O4 |
| SMILES: | CCC=CCOC(=O)CCC(=O)OCC=CCC |
| Mol. weight [g/mol]: | 254.32 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -240.40 | kJ/mol | Joback Method |
| hf | -587.45 | kJ/mol | Joback Method |
| hfus | 37.99 | kJ/mol | Joback Method |
| hvap | 64.99 | kJ/mol | Joback Method |
| log10ws | -3.12 | | Crippen Method |
| logp | 2.785 | | Crippen Method |
| mvol | 214.400 | ml/mol | McGowan Method |
| pc | 1786.37 | kPa | Joback Method |
| rinpol | 1762.00 | | NIST Webbook |
| tb | 680.62 | K | Joback Method |
| tc | 867.57 | K | Joback Method |
| tf | 381.70 | K | Joback Method |
| vc | 0.828 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 577.81 | J/molxK | 680.62 | Joback Method |
| cpg | 592.46 | J/molxK | 711.78 | Joback Method |
| cpg | 606.36 | J/molxK | 742.94 | Joback Method |
| cpg | 619.54 | J/molxK | 774.09 | Joback Method |
| cpg | 632.01 | J/molxK | 805.25 | Joback Method |
| cpg | 643.81 | J/molxK | 836.41 | Joback Method |
| cpg | 654.95 | J/molxK | 867.57 | Joback Method |
| dvisc | 0.0012769 | Paxs | 381.70 | Joback Method |
| dvisc | 0.0006335 | Paxs | 431.52 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0003633 | Paxs | 481.34 | Joback Method |
| dvisc | 0.0002313 | Paxs | 531.16 | Joback Method |
| dvisc | 0.0001591 | Paxs | 580.98 | Joback Method |
| dvisc | 0.0001161 | Paxs | 630.80 | Joback Method |
| dvisc | 0.0000887 | Paxs | 680.62 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U391274&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

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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