

Sebacic acid, 2,4-dimethylpent-3-yl heptyl ester

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|----------------------|--|
| Inchi: | InChI=1S/C24H46O4/c1-6-7-8-13-16-19-27-22(25)17-14-11-9-10-12-15-18-23(26)28-24(|
| InchiKey: | WEHGGWBCMGXWCU-UHFFFAOYSA-N |
| Formula: | C24H46O4 |
| SMILES: | CCCCCCCOC(=O)CCCCCCCC(=O)OC(C(C)C)C(C)C |
| Mol. weight [g/mol]: | 398.62 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -323.96 | kJ/mol | Joback Method |
| hf | -1044.13 | kJ/mol | Joback Method |
| hfus | 52.92 | kJ/mol | Joback Method |
| hvap | 86.17 | kJ/mol | Joback Method |
| log10ws | -7.22 | | Crippen Method |
| logp | 6.845 | | Crippen Method |
| mvol | 363.900 | ml/mol | McGowan Method |
| pc | 862.01 | kPa | Joback Method |
| rinpol | 2625.00 | | NIST Webbook |
| tb | 899.78 | K | Joback Method |
| tc | 1101.76 | K | Joback Method |
| tf | 459.56 | K | Joback Method |
| vc | 1.409 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1218.83 | J/molxK | 899.78 | Joback Method |
| cpg | 1238.81 | J/molxK | 933.44 | Joback Method |
| cpg | 1257.37 | J/molxK | 967.11 | Joback Method |
| cpg | 1274.54 | J/molxK | 1000.77 | Joback Method |
| cpg | 1290.36 | J/molxK | 1034.43 | Joback Method |
| cpg | 1304.87 | J/molxK | 1068.10 | Joback Method |
| cpg | 1318.09 | J/molxK | 1101.76 | Joback Method |
| dvisc | 0.0008558 | Paxs | 459.56 | Joback Method |
| dvisc | 0.0003072 | Paxs | 532.93 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0001413 | Paxs | 606.30 | Joback Method |
| dvisc | 0.0000768 | Paxs | 679.67 | Joback Method |
| dvisc | 0.0000471 | Paxs | 753.04 | Joback Method |
| dvisc | 0.0000314 | Paxs | 826.41 | Joback Method |
| dvisc | 0.0000224 | Paxs | 899.78 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U355430&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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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